

18/397

M9

From: Chan, Christina
Sent: Tuesday, March 07, 2006 7:50 AM
To: Minnifield, Nita; STIC-Biotech/ChemLib
Subject: RE: rush interference sequence

Please ~~rush~~ Thanks Chris

Chris Chan
TC 1600 New Hire Training Coordinator and SPE.1644
(571)-272-0841
Remsen, 3E89

-----Original Message-----

From: Minnifield, Nita
Sent: Monday, March 06, 2006 7:08 PM
To: Chan, Christina
Subject: rush interference sequence.

Christina,
Please approve, 2 month amdt. due.

STIC

09/337584

Please do an interference sequence search on SEQ ID NO: 3, 7, 10, 12, 38 and 57 of this application.

Please provide a paper printout of all results.

Thanks,
Minnifield
71976

Searcher: _____
Searcher Phone: _____
Date Searcher Picked up: _____
Date completed: _____
Searcher Prep Time: _____
Online Time: _____

Type of Search
NA# _____ AA# _____
S/L: _____ Oligomer: _____
Encode/Transl: _____
Structure #: _____ Text: _____
Inventor: _____ Litigation: _____

Vendors and cost where applicable
STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other (Specify): _____

Date completed:

Searcher: Beverly e 2528

Terminal time: _____

Elapsed time: _____

CPU time: _____

Total time: _____

Number of Searches: _____

Number of Databases: _____

Search Site

_____ STIC

_____ CM-1

_____ Pre-S

Type of Search

_____ N.A. Sequence

_____ A.A. Sequence

_____ Structure

_____ Bibliographic

Vendors

_____ IG

_____ STN

_____ Dialog

_____ APS

_____ Geninfo

_____ SDC

_____ DARC/Questel

_____ Other CGU

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STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 181397

TO: Nita M Minnifield
Art Unit: 1645
Location: rem/3C01/3C18
Serial Number: 09/337584

Wednesday, March 15, 2006

From: Beverly Shears
Location: Biotech-Chem Library
REM 1A54
Phone: 571-272-2528
beverly.shears@uspto.gov

Search Notes

Your queries have completed processing. You may access an electronic version via eDAN (SCORE) and /or <http://es/ScoreAccessWeb>.

Published Applications Database - November 2005

Published_Applications Nucleic Acid and Published_Applications Amino Acid database searches now generate two sets of results each. The Published_Applications databases have been split into two parts to reduce the amount of time required for their daily updates. This results in more machine time being available for processing searches.

Newly published applications will appear in the Published_Applications_New databases; older published applications make up the Published_Applications_Main databases.

Searches run against Nucleic Acid Published_Applications produce two sets of results, with the extensions .**rnpbm** (Published_Applications_NA_Main) and .**rnphn** (Published_Applications_NA_New).

Searches run against Amino Acid Published_Applications produce two sets of results, with the extensions .**rapbm** (Published_Applications_AA_Main) and .**rapbn** (Published_Applications_AA_New).

*Reviewed
3/15/06*



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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 20:06:26 ; Search time 92.434 Seconds

(without alignments)
149.769 Million cell updates/sec

Title: US-09-337-584-57

Perfect score: 6

Sequence: 1 gtcgct 6

Scoring table: IDENTITY NUC

Gapop 10.0 , Gapext 1.0

Searched: 7673375 seqs, 1153648444 residues

Total number of hits satisfying chosen parameters: 15346750

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

Published Applications NA.New:*
1: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
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11: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	100.0	6	8	US-10-619-279-57	Sequence 57, Appl
2	100.0	6	12	US-11-173-938-49	Sequence 167, App
3	100.0	6	12	US-11-173-938-167	Sequence 102, App
4	100.0	6	12	US-10-619-279-102	Sequence 48, Appl
5	100.0	6	12	US-11-173-938-48	Sequence 47, Appl
6	100.0	6	12	US-11-173-938-47	Sequence 36, App
7	100.0	6	12	US-11-012-522-166	Sequence 292, App
8	100.0	6	12	US-11-061-140-292	Sequence 33, Appl
9	100.0	6	12	US-10-925-872-33	Sequence 26, Appl
10	100.0	6	12	US-11-173-938-36	Sequence 46, Appl
11	100.0	6	12	US-11-173-938-46	Sequence 159, App
12	100.0	6	12	US-11-173-938-159	Sequence 32, Appl
13	100.0	6	12	US-10-925-872-32	Sequence 8, Appl
14	100.0	6	12	US-11-009-840A-8	Sequence 8, Appl
15	100.0	6	12	US-11-009-873A-8	Sequence 45, Appl
16	100.0	6	12	US-11-173-938-45	Sequence 128, App
17	100.0	6	12	US-11-009-769A-8	Sequence 85, Appl
18	100.0	6	12	US-10-844-603A-128	Sequence 247, App
19	100.0	6	12	US-10-619-279-85	
20	100.0	6	12	US-11-137-654-247	

21	100.0	14	7	US-10-533-634-38	Sequence 38, Appl
22	100.0	14	7	US-10-925-872-31	Sequence 31, Appl
23	100.0	14	8	US-10-619-279-51	Sequence 51, Appl
24	100.0	14	12	US-11-127-654-246	Sequence 246, App
25	100.0	14	12	US-11-127-654-350	Sequence 350, App
26	100.0	14	12	US-11-127-654-351	Sequence 351, App
27	100.0	14	12	US-11-127-654-352	Sequence 352, App
28	100.0	14	12	US-11-173-938-44	Sequence 44, Appl
29	100.0	14	12	US-11-173-938-87	Sequence 87, Appl
30	100.0	15	12	US-11-127-654-86	Sequence 86, Appl
31	100.0	15	12	US-11-127-654-153	Sequence 153, App
32	100.0	16	8	US-10-517-544-27	Sequence 27, Appl
33	100.0	16	8	US-10-528-031-20	Sequence 20, Appl
34	100.0	16	8	US-10-953-392-42	Sequence 42, Appl
35	100.0	16	8	US-10-954-147-42	Sequence 42, Appl
36	100.0	16	9	US-11-174-341-47	Sequence 47, Appl
37	100.0	16	9	US-11-201-916-39	Sequence 39, Appl
38	100.0	16	12	US-11-117-187-59	Sequence 59, Appl
39	100.0	16	12	US-11-036-797-27	Sequence 27, Appl
40	100.0	16	12	US-11-065-184-2	Sequence 2, Appl
41	100.0	17	7	US-10-969-169-1	Sequence 1, Appl
42	100.0	17	8	US-10-510-107-26	Sequence 26, Appl
43	100.0	17	8	US-10-793-626-4471	Sequence 4471, App
44	100.0	17	8	US-10-701-605-1	Sequence 1, Appl
45	100.0	17	8	US-10-701-605-9	Sequence 9, Appl
46	100.0	17	8	US-10-454-437-442	Sequence 442, App
47	100.0	17	9	US-11-202-731-11	Sequence 11, Appl
48	100.0	17	9	US-11-242-588-13	Sequence 13, Appl
49	100.0	17	11	US-11-082-389-446	Sequence 446, App
50	100.0	17	12	US-11-127-654-36	Sequence 346, App
51	100.0	17	12	US-11-045-468A-7	Sequence 7, Appl
52	100.0	17	12	US-11-055-622-1158	Sequence 1158, App
53	100.0	17	12	US-11-063-343-49	Sequence 49, Appl
54	100.0	17	12	US-11-100-897-1	Sequence 1, Appl
55	100.0	17	12	US-11-015-786-3	Sequence 3, Appl
56	100.0	17	12	US-11-132-650-24	Sequence 24, Appl
57	100.0	17	12	US-11-077-956-7	Sequence 7, Appl
58	100.0	17	12	US-11-099-683-4	Sequence 4, Appl
59	100.0	17	12	US-11-099-683-5	Sequence 5, Appl
60	100.0	17	12	US-11-237-707-1	Sequence 1, Appl
61	100.0	18	7	US-10-925-872-17	Sequence 17, Appl
62	100.0	18	7	US-10-523-503-163	Sequence 163, App
63	100.0	18	7	US-10-926-852-14	Sequence 14, Appl
64	100.0	18	7	US-10-927-435-14	Sequence 14, Appl
65	100.0	18	7	US-10-927-634-14	Sequence 14, Appl
66	100.0	18	8	US-10-510-107-16	Sequence 16, Appl
67	100.0	18	8	US-10-510-107-17	Sequence 17, Appl
68	100.0	18	8	US-10-510-107-19	Sequence 19, Appl
69	100.0	18	8	US-10-750-623-15330	Sequence 21, Appl
70	100.0	18	8	US-10-750-623-16184	Sequence 16184, A
71	100.0	18	8	US-10-750-185-16184	Sequence 16184, A
72	100.0	18	8	US-10-750-185-17909	Sequence 17909, A
73	100.0	18	8	US-10-501-675-3	Sequence 3, Appl
74	100.0	18	8	US-10-750-623-15330	Sequence 15330, A
75	100.0	18	8	US-10-750-623-16184	Sequence 16184, A
76	100.0	18	8	US-10-750-623-17909	Sequence 17909, A
77	100.0	18	8	US-10-914A-59476	Sequence 59476, A
78	100.0	18	8	US-10-310-914A-79684	Sequence 79684, A
79	100.0	18	8	US-10-310-914A-88019	Sequence 88019, A
80	100.0	18	8	US-10-310-914A-103812	Sequence 103812, A
81	100.0	18	8	US-10-310-914A-116587	Sequence 116587, A
82	100.0	18	8	US-10-310-914A-127136	Sequence 127136, A
83	100.0	18	8	US-10-310-914A-134655	Sequence 134655, A
84	100.0	18	8	US-10-310-914A-138223	Sequence 138223, A
85	100.0	18	8	US-10-310-914A-141183	Sequence 141183, A
86	100.0	18	8	US-10-310-914A-159093	Sequence 159093, A
87	100.0	18	8	US-10-310-914A-176014	Sequence 176014, A
88	100.0	18	8	US-10-310-914A-176995	Sequence 176995, A
89	100.0	18	8	US-10-310-914A-177392	Sequence 177392, A
90	100.0	18	8	US-10-310-914A-185130	Sequence 185130, A
91	100.0	18	8	US-10-310-914A-190348	Sequence 190348, A
92	100.0	18	8	US-10-310-914A-196949	Sequence 196949, A
93	100.0	18	8	US-10-310-914A-197018	Sequence 197018, A

C 94 6 100.0 18 8 US-10-310-914A-197019 Sequence 197019,
C 95 6 100.0 18 8 US-10-310-914A-199520 Sequence 199520,
C 96 6 100.0 18 8 US-10-310-914A-200673 Sequence 200673,
C 97 6 100.0 18 8 US-10-310-914A-200774 Sequence 200774,
C 98 6 100.0 18 8 US-10-310-914A-226187 Sequence 226187,
C 99 6 100.0 18 8 US-10-310-914A-226247 Sequence 226247,
100 6 100.0 18 8 US-10-310-914A-238053 Sequence 238053,

ALIGNMENTS

RESULT 1

US-10-619-279-57
; Sequence 57, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; PRIOR FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 6
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-57

Query Match 100.0%; Score 6; DB 8; Length 6;
Best Local Similarity 100.0%; Pred. No. 3.8e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
Db 1 GTCGTT 6

RESULT 2

US-11-173-938-49
; Sequence 49, Application US/11173938
; Publication No. US20060019918A1
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: WESTBORO, DONG YU
; APPLICANT: KANDIMALLA, EKAMBAR R.
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
; FILE REFERENCE: HYB-018US1
; CURRENT APPLICATION NUMBER: US/11/173,938
; PRIOR FILING DATE: 2005-07-01
; PRIOR APPLICATION NUMBER: US/10/757,345
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: 60/440,587
; PRIOR FILING DATE: 2003-01-16
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 49
; LENGTH: 6
; TYPE: DNA

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-11-173-938-49

Query Match 100.0%; Score 6; DB 12; Length 6;
Best Local Similarity 100.0%; Pred. No. 3.8e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
Db 1 GTCGTT 6

RESULT 3

US-11-173-938-167
; Sequence 167, Application US/11173938
; Publication No. US20060019918A1
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: WESTBORO, DONG YU
; APPLICANT: KANDIMALLA, EKAMBAR R.
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
; FILE REFERENCE: HYB-018US1
; CURRENT APPLICATION NUMBER: US/11/173,938
; PRIOR FILING DATE: 2005-07-01
; PRIOR APPLICATION NUMBER: US/10/757,345
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: 60/440,587
; PRIOR FILING DATE: 2003-01-16
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 167
; LENGTH: 6
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-11-173-938-167

Query Match 100.0%; Score 6; DB 12; Length 6;
Best Local Similarity 100.0%; Pred. No. 3.8e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
Db 1 GTCGTT 6

RESULT 4

US-10-619-279-102
; Sequence 102, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; PRIOR FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123

SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 102
 LENGTH: 7
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic Oligonucleotide
 US-10-619-279-102

Query Match 100.0%; Score 6; DB 8; Length 7;
 Best Local Similarity 100.0%; Pred. No. 3.3e+08;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
 Db 2 GTCGTT 7

RESULT 5
 US-11-173-938-48
 Sequence 48, Application US/11173938
 Publication No. US20060019918A1
 GENERAL INFORMATION:
 APPLICANT: AGRAWAL, SUDHIR
 APPLICANT: BHAGAT, LAKSHMI
 APPLICANT: WESTBORO, DONG YU
 TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
 TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
 FILE REFERENCE: HYB-018US1
 CURRENT APPLICATION NUMBER: US/11/173,938
 CURRENT FILING DATE: 2005-07-01
 PRIOR APPLICATION NUMBER: US/10/757,345
 PRIOR FILING DATE: 2004-01-14
 PRIOR APPLICATION NUMBER: 60/440,587
 PRIOR FILING DATE: 2003-01-16
 NUMBER OF SEQ ID NOS: 192
 SOFTWARE: PatentIn Ver. 3.2
 SEQ ID NO 48
 LENGTH: 7
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 OTHER INFORMATION: Oligonucleotide
 US-11-173-938-48

Query Match 100.0%; Score 6; DB 12; Length 7;
 Best Local Similarity 100.0%; Pred. No. 3.3e+08;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
 Db 1 GTCGTT 6

RESULT 6
 US-11-173-938-47
 Sequence 47, Application US/11173938
 Publication No. US20060019918A1
 GENERAL INFORMATION:
 APPLICANT: AGRAWAL, SUDHIR
 APPLICANT: BHAGAT, LAKSHMI
 APPLICANT: WESTBORO, DONG YU
 TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
 TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
 FILE REFERENCE: HYB-018US1
 CURRENT APPLICATION NUMBER: US/11/173,938
 CURRENT FILING DATE: 2005-07-01
 PRIOR APPLICATION NUMBER: US/10/757,345

PRIOR FILING DATE: 2004-01-14
 PRIOR APPLICATION NUMBER: 60/440,587
 PRIOR FILING DATE: 2003-01-16
 NUMBER OF SEQ ID NOS: 192
 SOFTWARE: PatentIn Ver. 3.2
 SEQ ID NO 47
 LENGTH: 8
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 OTHER INFORMATION: Oligonucleotide
 US-11-173-938-47

Query Match 100.0%; Score 6; DB 12; Length 8;
 Best Local Similarity 100.0%; Pred. No. 2.9e+08;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
 Db 1 GTCGTT 6

RESULT 7
 US-11-012-522-366
 Sequence 366, Application US/11012522
 Publication No. US20060014264A1
 GENERAL INFORMATION:
 APPLICANT: Stowers Institute for Medical Research
 APPLICANT: Sauer, Brian Lee
 APPLICANT: Pelyuk, Vladimir Alexandrovich
 TITLE OF INVENTION: A CR/LOX SYSTEM WITH LOX SITES HAVING AN EXTENDED SPACER REGION
 FILE REFERENCE: 097289
 CURRENT APPLICATION NUMBER: US/11/012,522
 CURRENT FILING DATE: 2004-12-15
 PRIOR APPLICATION NUMBER: 60/587,399
 PRIOR FILING DATE: 2004-07-13
 NUMBER OF SEQ ID NOS: 390
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO 366
 LENGTH: 9
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Mutant lox sites
 US-11-012-522-366

Query Match 100.0%; Score 6; DB 12; Length 9;
 Best Local Similarity 100.0%; Pred. No. 2.6e+08;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
 Db 3 GTCGTT 8

RESULT 8
 US-11-061-140-292
 Sequence 292, Application US/11061140
 Publication No. US20050256073A1
 GENERAL INFORMATION:
 APPLICANT: Grayson B. Lipford
 APPLICANT: Alexandra Forsbach
 TITLE OF INVENTION: IMMUNOSTIMULATORY VIRAL RNA OLIGONUCLEOTIDES
 FILE REFERENCE: C1037.70053US01
 CURRENT APPLICATION NUMBER: US/11/061,140
 CURRENT FILING DATE: 2005-02-18
 PRIOR APPLICATION NUMBER: US 60/545,988
 PRIOR FILING DATE: 2004-02-19
 NUMBER OF SEQ ID NOS: 344
 SOFTWARE: PatentIn version 3.3
 SEQ ID NO 292
 LENGTH: 10

```

; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-061-140-292

Query Match
Best Local Similarity 100.0%; Score 6; DB 12; Length 10;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
    |||||
Db 3 GTCGTT 8

RESULT 9
US-10-925-872-33
; Sequence 33, Application US/10925872
; Publication No. US20060019909A1
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; APPLICANT: KANDIMALLA, EKAMBAR
; APPLICANT: YU, DONG
; APPLICANT: BHAGAT, LAKSHMI
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY OPTIMAL PRESENTATION
; TITLE OF INVENTION: OF 5' ENDS
; FILE REFERENCE: HYB-007US2
; CURRENT APPLICATION NUMBER: US/10/925,872
; CURRENT FILING DATE: 2004-08-25
; PRIOR APPLICATION NUMBER: US/10/279,684
; PRIOR FILING DATE: 2002-10-24
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 33
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-925-872-33

Query Match
Best Local Similarity 100.0%; Score 6; DB 7; Length 11;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
    |||||
Db 4 GTCGTT 9

RESULT 10
US-11-173-938-26
; Sequence 26, Application US/11173938
; Publication No. US20060019918A1
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: WESTBORO, DONG YU
; APPLICANT: KANDIMALLA, EKAMBAR R.
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
; TITLE OF INVENTION: IMMUNOSTIMULATORY DINUCLEOTIDES
; FILE REFERENCE: HYB-018US1
; CURRENT APPLICATION NUMBER: US/11/173,938
; CURRENT FILING DATE: 2005-07-01
; PRIOR APPLICATION NUMBER: US/10/757,345
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: 60/440,587
; PRIOR FILING DATE: 2003-01-16
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn Ver. 3.2
```

```

; SEQ ID NO 26
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (7)
; OTHER INFORMATION: 7-deaza-dG
US-11-173-938-26

Query Match
Best Local Similarity 100.0%; Score 6; DB 12; Length 11;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
    |||||
Db 4 GTCGTT 9

RESULT 11
US-11-173-938-46
; Sequence 46, Application US/11173938
; Publication No. US20060019918A1
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: WESTBORO, DONG YU
; APPLICANT: KANDIMALLA, EKAMBAR R.
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
; TITLE OF INVENTION: IMMUNOSTIMULATORY DINUCLEOTIDES
; FILE REFERENCE: HYB-018US1
; CURRENT APPLICATION NUMBER: US/11/173,938
; CURRENT FILING DATE: 2005-07-01
; PRIOR APPLICATION NUMBER: US/10/757,345
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: 60/440,587
; PRIOR FILING DATE: 2003-01-16
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 46
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-11-173-938-46

Query Match
Best Local Similarity 100.0%; Score 6; DB 12; Length 11;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
    |||||
Db 4 GTCGTT 9

RESULT 12
US-11-173-938-159
; Sequence 159, Application US/11173938
; Publication No. US20060019918A1
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: WESTBORO, DONG YU
; APPLICANT: KANDIMALLA, EKAMBAR R.
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
; TITLE OF INVENTION: IMMUNOSTIMULATORY DINUCLEOTIDES
```

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; FILE REFERENCE: HYB-018US1
; CURRENT APPLICATION NUMBER: US/11/173,938
; CURRENT FILING DATE: 2005-07-01
; PRIOR APPLICATION NUMBER: US/10/757,345
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: 60/440,587
; PRIOR FILING DATE: 2003-01-16
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO: 159
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; US-11-173-938-159

```

```

Query Match 100.0%; Score 6; DB 12; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GTCGTT 6
   |||||
Db 4 GTCGTT 9

```

```

RESULT 13
US-10-925-872-32
; Sequence 32, Application US/10925872
; Publication No. US20060019909A1
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; APPLICANT: KANDIMALLA, EXAMBAR
; APPLICANT: YU, DONG
; TITLE OF INVENTION: BHAGAT, LAKSHMI
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY OPTIMAL PRESENTATION
; TITLE OF INVENTION: OF 5' ENDS
; FILE REFERENCE: HYB-007052
; CURRENT APPLICATION NUMBER: US/10/925,872
; CURRENT FILING DATE: 2004-08-25
; PRIOR APPLICATION NUMBER: US/10/279,684
; PRIOR FILING DATE: 2002-10-24
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 32
; LENGTH: 12
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; US-10-925-872-32

```

```

Query Match 100.0%; Score 6; DB 7; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GTCGTT 6
   |||||
Db 3 GTCGTT 8

```

```

RESULT 14
US-11-009-840A-8/c
; Sequence 8, Application US/11009840A
; Publication No. US20060015949A1
; GENERAL INFORMATION:
; APPLICANT: Medarex, Inc.
; APPLICANT: Lonberg, Nils
; APPLICANT: Kay, Robert M.
; TITLE OF INVENTION: TRANSGENIC NON-HUMAN ANIMALS FOR PRODUCING HETEROLOGOUS

```

```

; TITLE OF INVENTION: AND CHIMERIC ANTIBODIES
; FILE REFERENCE: 04280/1201643-US8
; CURRENT APPLICATION NUMBER: US/11/009,840A
; CURRENT FILING DATE: 2004-12-10
; PRIOR APPLICATION NUMBER: US 09/724,965
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 08/758,417
; PRIOR FILING DATE: 1996-12-02
; PRIOR APPLICATION NUMBER: US 08/728,463
; PRIOR FILING DATE: 1996-10-10
; PRIOR APPLICATION NUMBER: US 08/544,404
; PRIOR FILING DATE: 1995-10-10
; PRIOR APPLICATION NUMBER: US 08/352,322
; PRIOR FILING DATE: 1994-12-07
; PRIOR APPLICATION NUMBER: US 08/209,741
; PRIOR FILING DATE: 1994-03-09
; PRIOR APPLICATION NUMBER: US 08/165,699
; PRIOR FILING DATE: 1993-12-10
; PRIOR APPLICATION NUMBER: US 08/161,739
; PRIOR FILING DATE: 1993-12-03
; PRIOR APPLICATION NUMBER: US 08/155,301
; PRIOR FILING DATE: 1993-11-18
; PRIOR APPLICATION NUMBER: US 08/096,762
; PRIOR FILING DATE: 1993-07-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 418
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 12
; TYPE: RNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: synthetic RNA
; US-11-009-840A-8

```

```

Query Match 100.0%; Score 6; DB 12; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GTCGTT 6
   |||||
Db 6 GTCGTT 1

```

```

RESULT 15
US-11-009-873A-8/c
; Sequence 8, Application US/11009873A
; Publication No. US20060015957A1
; GENERAL INFORMATION:
; APPLICANT: Medarex, Inc.
; APPLICANT: Lonberg, Nils
; APPLICANT: Kay, Robert M.
; TITLE OF INVENTION: Transgenic Non-Human Animals for Producing Chimeric Antibodies
; FILE REFERENCE: 04280/1201643-US6
; CURRENT APPLICATION NUMBER: US/11/009,873A
; CURRENT FILING DATE: 2004-12-10
; PRIOR APPLICATION NUMBER: US 09/724,965
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 08/758,417
; PRIOR FILING DATE: 1996-12-02
; PRIOR APPLICATION NUMBER: US 08/728,463
; PRIOR FILING DATE: 1996-10-10
; PRIOR APPLICATION NUMBER: US 08/544,404
; PRIOR FILING DATE: 1995-10-10
; PRIOR APPLICATION NUMBER: US 08/352,322
; PRIOR FILING DATE: 1994-12-07
; PRIOR APPLICATION NUMBER: US 08/209,741
; PRIOR FILING DATE: 1994-03-09
; PRIOR APPLICATION NUMBER: US 08/165,699
; PRIOR FILING DATE: 1993-12-10
; PRIOR APPLICATION NUMBER: US 08/161,739
; PRIOR FILING DATE: 1993-12-03
; PRIOR APPLICATION NUMBER: US 08/155,301

```

```

; PRIOR FILING DATE: 1993-11-18
; PRIOR APPLICATION NUMBER: US 08/096,762
; PRIOR FILING DATE: 1993-07-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 418
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 12
; TYPE: RNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: synthetic RNA
US-11-009-873A-8

Query Match          100.0%; Score 6; DB 12; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GTCGTT 6
        |||||
Db      6 GTCGTT 1

RESULT 16
US-11-173-938-45
; Sequence 45, Application US/1173938
; Publication No. US20060019918A1
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, SUDHIR
; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: WESTBORO, DONG YU
; APPLICANT: KANIMALLA, EKAMBAR R.
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
; FILE REFERENCE: HYB-018US1
; CURRENT APPLICATION NUMBER: US/11/173,938
; CURRENT FILING DATE: 2005-07-01
; PRIOR APPLICATION NUMBER: US/10/757,345
; PRIOR FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: 60/440,587
; PRIOR FILING DATE: 2003-01-16
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 45
; LENGTH: 12
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-11-173-938-45

Query Match          100.0%; Score 6; DB 12; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GTCGTT 6
        |||||
Db      3 GTCGTT 8

RESULT 17
US-11-009-769A-8/C
; Sequence 8, Application US/11009769A
; Publication No. US20060026703A1
; GENERAL INFORMATION:
; APPLICANT: Medarex, Inc.
; APPLICANT: Lonberg, Nils
; APPLICANT: Kay, Robert M.
; TITLE OF INVENTION: TRANSGENIC NON-HUMAN ANIMALS FOR PRODUCING HETEROLOGOUS AND
; TITLE OF INVENTION: CHIMERIC ANTIBODIES
; FILE REFERENCE: 04280/1201643-US7
```

```

; CURRENT APPLICATION NUMBER: US/11/009,769A
; CURRENT FILING DATE: 2004-12-10
; PRIOR APPLICATION NUMBER: US 09/724,965
; PRIOR FILING DATE: 2000-11-28
; PRIOR APPLICATION NUMBER: US 08/758,417
; PRIOR FILING DATE: 1996-12-02
; PRIOR APPLICATION NUMBER: US 08/728,463
; PRIOR FILING DATE: 1996-10-10
; PRIOR APPLICATION NUMBER: US 08/544,404
; PRIOR FILING DATE: 1995-10-10
; PRIOR APPLICATION NUMBER: US 08/352,322
; PRIOR FILING DATE: 1994-12-07
; PRIOR APPLICATION NUMBER: US 08/209,741
; PRIOR FILING DATE: 1994-03-09
; PRIOR APPLICATION NUMBER: US 08/165,699
; PRIOR FILING DATE: 1993-12-10
; PRIOR APPLICATION NUMBER: US 08/161,739
; PRIOR FILING DATE: 1993-12-03
; PRIOR APPLICATION NUMBER: US 08/155,301
; PRIOR FILING DATE: 1993-11-18
; PRIOR APPLICATION NUMBER: US 08/096,762
; PRIOR FILING DATE: 1993-07-22
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 418
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 8
; LENGTH: 12
; TYPE: RNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: synthetic RNA
US-11-009-769A-8

Query Match          100.0%; Score 6; DB 12; Length 12;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GTCGTT 6
        |||||
Db      6 GTCGTT 1

RESULT 18
US-10-844-603A-128/C
; Sequence 128, Application US/10844603A
; Publication No. US20050255482A1
; GENERAL INFORMATION:
; APPLICANT: Morley, Alec
; APPLICANT: Bristol, Michael
; APPLICANT: Sykes, Pamela
; TITLE OF INVENTION: A METHOD OF ANALYSING A MARKER NUCLEIC ACID MOLECULE
; FILE REFERENCE: 229752003400
; CURRENT APPLICATION NUMBER: US/10/844,603A
; CURRENT FILING DATE: 2004-05-13
; NUMBER OF SEQ ID NOS: 247
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 128
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DH primers for V-D-J rearrangements
US-10-844-603A-128

Query Match          100.0%; Score 6; DB 8; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GTCGTT 6
        |||||
Db      6 GTCGTT 1
```

RESULT 19
US-10-619-279-85
; Sequence 85, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Kries, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 85
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-85

Query Match 100.0%; Score 6; DB 8; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||
Db 2 GTCGTT 7

RESULT 20
US-11-127-654-247
; Sequence 247, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Bieg, Daniel J.
; APPLICANT: Bieg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039,70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 247
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-247

Query Match 100.0%; Score 6; DB 12; Length 13;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||
Db 2 GTCGTT 7

RESULT 21

US-10-533-634-38
; Sequence 38, Application US/10533634
; Publication No. US20060019239A1
; GENERAL INFORMATION:
; APPLICANT: THE UNITED STATES OF AMERICA AS REPRESENTED BY THE
; APPLICANT: SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES
; APPLICANT: Kliman, Dennis M.
; APPLICANT: Ivins, Bruce
; APPLICANT: Verheijyl, Daniela
; TITLE OF INVENTION: METHOD OF PREVENTING INFECTIONS FROM BIOTERRORISM AGENTS WITH
; TITLE OF INVENTION: IMMUNOSTIMULATORY Cpg OLIGONUCLEOTIDES
; FILE REFERENCE: 4239-67021-06
; CURRENT APPLICATION NUMBER: US/10/533,634
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: PCT/US2003/034523
; PRIOR FILING DATE: 2003-10-31
; PRIOR APPLICATION NUMBER: US 60/422,964
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 38
; LENGTH: 14
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: K oligonucleotide
US-10-533-634-38

Query Match 100.0%; Score 6; DB 7; Length 14;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||
Db 9 GTCGTT 14

RESULT 22
US-10-925-872-31
; Sequence 31, Application US/10925872
; Publication No. US20060019909A1
; GENERAL INFORMATION:
; APPLICANT: AGRANAL, SUDHIR
; APPLICANT: KANDIMALLA, EXAMBAR
; APPLICANT: YU, DONG
; APPLICANT: BHAGAT, LAKSHMI
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY OPTIMAL PRESENTATION
; TITLE OF INVENTION: OF 5' ENDS
; FILE REFERENCE: HYB-0070US2
; CURRENT APPLICATION NUMBER: US/10/925,872
; CURRENT FILING DATE: 2004-08-25
; PRIOR APPLICATION NUMBER: US/10/279,684
; PRIOR FILING DATE: 2002-10-24
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 31
; LENGTH: 14
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-925-872-31

Query Match 100.0%; Score 6; DB 7; Length 14;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||
Db 3 GTCGTT 8

RESULT 23
US-10-619-279-51
; Sequence 51, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 51
; LENGTH: 14
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-51

Query Match 100.0%; Score 6; DB 8; Length 14;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||
Db 9 GTCGTT 14

RESULT 24
US-11-127-654-246
; Sequence 246, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039,70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 246
; LENGTH: 14
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-246

Query Match 100.0%; Score 6; DB 12; Length 14;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||
Db 9 GTCGTT 14

RESULT 25
US-11-127-654-350
; Sequence 350, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039,70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 350
; LENGTH: 14
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-350

Query Match 100.0%; Score 6; DB 12; Length 14;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||
Db 9 GTCGTT 14

RESULT 26
US-11-127-654-351
; Sequence 351, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039,70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 351
; LENGTH: 14
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-351

Query Match 100.0%; Score 6; DB 12; Length 14;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||
Db 9 GTCGTT 14

RESULT 27
US-11-127-654-352
; Sequence 352, Application US/11127654

Publication No. US20050250726A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Berg, Daniel J.
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
FILE REFERENCE: C1039.70060US01
CURRENT APPLICATION NUMBER: US/11/127,654
PRIOR FILING DATE: 2005-05-12
PRIOR FILING DATE: 2002-03-29
PRIOR APPLICATION NUMBER: US 60/279,642
PRIOR FILING DATE: 2001-03-29
NUMBER OF SEQ ID NOS: 1040
SOFTWARE: PatentIn version 3.2
SEQ ID NO 352
LENGTH: 14
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-352

Query Match 100.0%; Score 6; DB 12; Length 14;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTCGTT 6
Db 9 GTCGTT 14

RESULT 28
US-11-173-938-44
Sequence 44, Application US/11173938
Publication No. US20060019918A1
GENERAL INFORMATION:
APPLICANT: AGRAMAL, SUDHIR
APPLICANT: BHAGAT, LAKSHMI
APPLICANT: WESTBORO, DONG YU
TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
FILE REFERENCE: HYB-018US1
CURRENT APPLICATION NUMBER: US/11/173,938
PRIOR FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US/10/757,345
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: 60/440,587
PRIOR FILING DATE: 2003-01-16
NUMBER OF SEQ ID NOS: 192
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 44
LENGTH: 14
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: oligonucleotide
US-11-173-938-44

Query Match 100.0%; Score 6; DB 12; Length 14;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTCGTT 6
Db 3 GTCGTT 8

RESULT 29
US-11-173-938-87

Sequence 87, Application US/11173938
Publication No. US20060019918A1
GENERAL INFORMATION:
APPLICANT: AGRAMAL, SUDHIR
APPLICANT: BHAGAT, LAKSHMI
APPLICANT: WESTBORO, DONG YU
TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
FILE REFERENCE: HYB-018US1
CURRENT APPLICATION NUMBER: US/11/173,938
PRIOR FILING DATE: 2005-07-01
PRIOR APPLICATION NUMBER: US/10/757,345
PRIOR FILING DATE: 2004-01-14
PRIOR APPLICATION NUMBER: 60/440,587
PRIOR FILING DATE: 2003-01-16
NUMBER OF SEQ ID NOS: 192
SOFTWARE: PatentIn Ver. 3.2
SEQ ID NO 87
LENGTH: 14
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: oligonucleotide
US-11-173-938-87

Query Match 100.0%; Score 6; DB 12; Length 14;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTCGTT 6
Db 3 GTCGTT 8

RESULT 30
US-11-127-654-86
Sequence 86, Application US/11127654
Publication No. US20050250726A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Berg, Daniel J.
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
FILE REFERENCE: C1039.70060US01
CURRENT APPLICATION NUMBER: US/11/127,654
PRIOR FILING DATE: 2005-05-12
PRIOR APPLICATION NUMBER: US 10/112,653
PRIOR FILING DATE: 2002-03-29
PRIOR APPLICATION NUMBER: US 60/279,642
PRIOR FILING DATE: 2001-03-29
NUMBER OF SEQ ID NOS: 1040
SOFTWARE: PatentIn version 3.2
SEQ ID NO 86
LENGTH: 15
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-86

Query Match 100.0%; Score 6; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GTCGTT 6
Db 5 GTCGTT 10

RESULT 31

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US-11-127-654-153
; Sequence 153, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT FILING DATE: 2005-05-12
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 153
; LENGTH: 15
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-153

Query Match          100.0%; Score 6; DB 12; Length 15;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTCGTT 6
        |||||
Db       5 GTCGTT 10

RESULT 32
US-10-517-544-27/c
; Sequence 27, Application US/10517544
; Publication No. US20050250100A1
; GENERAL INFORMATION:
; APPLICANT: RIKEN
; APPLICANT: KABUSHIKI KAISHA DNAFORM
; TITLE OF INVENTION: Method for utilizing the 5' end of mRNA for cloning and analysis
; FILE REFERENCE: 1336(PCT)
; CURRENT FILING DATE: 2004-12-10
; PRIOR FILING DATE: 2002-06-12
; PRIOR APPLICATION NUMBER: JP 2002-171851
; PRIOR FILING DATE: 2002-08-12
; PRIOR APPLICATION NUMBER: JP 2002-235294
; NUMBER OF SEQ ID NOS: 77
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 27
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: primer
US-10-517-544-27

Query Match          100.0%; Score 6; DB 8; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTCGTT 6
        |||||
Db       10 GTCGTT 5

RESULT 33
US-10-528-031-20/c
; Sequence 20, Application US/10528031
; Publication No. US20050262577A1
; GENERAL INFORMATION:
```

```
; APPLICANT: ORIDIS BIOMED Forschungs- und Entwicklungs GmbH
; APPLICANT: Guelly, Christian
; APPLICANT: Buck, Charles R.
; APPLICANT: Zatloukal, Kurt
; TITLE OF INVENTION: Polypeptides and nucleic acids encoding these and their use for t
; TITLE OF INVENTION: Prevention, diagnosis or treatment of liver disorders and epithe
; FILE REFERENCE: Oridis Biomed
; CURRENT FILING DATE: 2005-03-16
; NUMBER OF SEQ ID NOS: 73
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 20
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Bacteriophage M13mp18
US-10-528-031-20

Query Match          100.0%; Score 6; DB 8; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTCGTT 6
        |||||
Db       10 GTCGTT 5

RESULT 34
US-10-953-392-42/c
; Sequence 42, Application US/10953392
; Publication No. US2005028967A1
; GENERAL INFORMATION:
; APPLICANT: CAMBIA
; TITLE OF INVENTION: Biological Gene Transfer System for Eukaryotic Cells
; FILE REFERENCE: CAMBIA 414B
; CURRENT FILING DATE: 2004-09-28
; PRIOR FILING DATE: 2004-09-28
; PRIOR APPLICATION NUMBER: US 60/583,426
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 42
; LENGTH: 16
; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: synthetic DNA
US-10-953-392-42

Query Match          100.0%; Score 6; DB 8; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GTCGTT 6
        |||||
Db       10 GTCGTT 5

RESULT 35
US-10-954-147-42/c
; Sequence 42, Application US/10954147
; Publication No. US20050289672A1
; GENERAL INFORMATION:
; APPLICANT: CAMBIA
; TITLE OF INVENTION: Biological Gene Transfer System for Eukaryotic Cells
; FILE REFERENCE: CAMBIA 414
; CURRENT FILING DATE: 2004-09-28
; PRIOR FILING DATE: 2004-09-28
; PRIOR APPLICATION NUMBER: 60/583,426
; NUMBER OF SEQ ID NOS: 83
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 42
; LENGTH: 16
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; TYPE: DNA
; ORGANISM: artificial
; FEATURE:
; OTHER INFORMATION: synthetic DNA
US-10-954-147-42

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Query Match
Best Local Similarity 100.0%; Score 6; DB 8; Length 16;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 GTCGTT 6
    |||||
Db 10 GTCGTT 5

```

```

RESULT 36
US-11-174-341-47/c
; Sequence 47, Application US/11174341
; Publication No. US20060031967A1
; GENERAL INFORMATION:

```

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; APPLICANT: Slade, Ann
; APPLICANT: Madisen, Linda
; APPLICANT: Comai, Luca
; TITLE OF INVENTION: Compositions and Methods for Modulation of Plant Cell
; FILE REFERENCE: 6769*2
; CURRENT APPLICATION NUMBER: US/11/174,341
; CURRENT FILING DATE: 2005-07-01
; NUMBER OF SEQ ID NOS: 212
; SOFTWARE: Patentn Ver. 2.0
; SEQ ID NO 47
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Plant
US-11-174-341-47

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Query Match
Best Local Similarity 100.0%; Score 6; DB 9; Length 16;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

Qy 1 GTCGTT 6
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Db 10 GTCGTT 5

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RESULT 37
US-11-201-916-39/c
; Sequence 39, Application US/11201916
; Publication No. US20060039222A1
; GENERAL INFORMATION:

```

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; APPLICANT: Mizen, Lee
; APPLICANT: Wisniewski, Jan
; TITLE OF INVENTION: STREPTOCACAL HEAT SHOCK PROTEINS OF THE
; NUMBER OF SEQUENCES: 91
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: SEED and BERRY LLP
; STREET: 701 Fifth Avenue, 6300 Columbia Center
; CITY: Seattle
; STATE: Washington
; COUNTRY: USA
; ZIP: 98104

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; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/11/201,916
; FILING DATE: 11-AUG-2005
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US/09/001,737

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; FILING DATE: 31-DEC-1997
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Sharkey, Richard G.
; REGISTRATION NUMBER: 32,629
; REFERENCE/DOCKET NUMBER: 870109.408
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (206) 622-4900
; TELEFAX: (206) 622-6031
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 16 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-11-201-916-39

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Query Match
Best Local Similarity 100.0%; Score 6; DB 9; Length 16;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 GTCGTT 6
    |||||
Db 10 GTCGTT 5

```

```

RESULT 38
US-11-117-187-59
; Sequence 59, Application US/11117187
; Publication No. US20050266560A1
; GENERAL INFORMATION:

```

```

; APPLICANT: PREUSS, DAPHNE
; APPLICANT: COPEHNAVER, GREGORY
; TITLE OF INVENTION: PLANT ARTIFICIAL CHROMOSOME COMPOSITIONS AND METHODS
; FILE REFERENCE: ARCD:309US
; CURRENT APPLICATION NUMBER: US/11/117,187
; CURRENT FILING DATE: 2005-04-28
; PRIOR APPLICATION NUMBER: US/09/531,120
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: 60/125,219
; PRIOR FILING DATE: 1999-03-18
; NUMBER OF SEQ ID NOS: 212
; SOFTWARE: Patentn Ver. 2.1
; SEQ ID NO 59
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Arabidopsis thaliana
US-11-117-187-59

```

```

Query Match
Best Local Similarity 100.0%; Score 6; DB 12; Length 16;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy 1 GTCGTT 6
    |||||
Db 6 GTCGTT 11

```

```

RESULT 39
US-11-036-797-27
; Sequence 27, Application US/11036797
; Publication No. US20050276817A1
; GENERAL INFORMATION:
; APPLICANT: Hondalut, Mary
; TITLE OF INVENTION: Rhodococcus Equi Mutatns and Vaccines Comprising Same
; FILE REFERENCE: 12687/2012
; CURRENT APPLICATION NUMBER: US/11/036,797
; CURRENT FILING DATE: 2005-01-14
; PRIOR APPLICATION NUMBER: PCT/US2003/022101
; PRIOR FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: 60/396,195
; PRIOR FILING DATE: 2002-07-16
; NUMBER OF SEQ ID NOS: 37

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; SOFTWARE: Patentin version 3.2
; SEQ ID NO 27
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Rhodococcus equi
US-11-036-797-27
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Query Match          100.0%; Score 6; DB 12; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
QY      1 GTCGTT 6
         |||||
Db       9 GTCGTT 14
```

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RESULT 40
US-11-065-184-2/C
; Sequence 2, Application US/11065184
; Publication No. US20050283852A1
; GENERAL INFORMATION:
; APPLICANT: Iturriaga de la Fuente, Gabriel
; APPLICANT: Thevelein, Johan M.
; APPLICANT: Van Dijk, Patrick
; APPLICANT: Mascorro-Gallardo, Jose Oscar
; APPLICANT: Van Vaeck, Christophe
; TITLE OF INVENTION: Specific Genetic Modification Of The Activity of
; TITLE OF INVENTION: Trehalose-6-Phosphate Synthase And Expression in a
; TITLE OF INVENTION: Homologous or Heterologous Environment
; FILE REFERENCE: 702-050570
; CURRENT APPLICATION NUMBER: US/11/065,184
; CURRENT FILING DATE: 2005-02-24
; PRIOR APPLICATION NUMBER: US 10/110,502
; PRIOR FILING DATE: 2002-04-15
; NUMBER OF SEQ ID NOS: 21
; SOFTWARE: Microsoft Word 97 SR-2
; SEQ ID NO 2
; LENGTH: 16
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Universal primer
US-11-065-184-2
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Query Match          100.0%; Score 6; DB 12; Length 16;
Best Local Similarity 100.0%; Pred. No. 2.1e+04;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1 GTCGTT 6
         |||||
Db       9 GTCGTT 4
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Search completed: March 8, 2006, 21:10:42
Job time : 94.434 secs
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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 19:48:19 ; Search time 125.717 Seconds
(without alignments)
394.666 Million cell updates/sec

Title: US-09-337-584-57
Perfect score: 6
Sequence: 1 gtcgtc 6

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Published Applications NA Main:
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3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
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9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	6	100.0	6	3	US-09-954-967B-66
2	6	100.0	6	3	US-10-023-909A-95
3	6	100.0	6	5	US-10-300-247-95
4	6	100.0	6	6	US-10-253-117-24
5	6	100.0	6	6	US-10-187-264A-57
6	6	100.0	6	6	US-10-306-522-57
7	6	100.0	6	6	US-10-314-578-1144
8	6	100.0	6	6	US-10-434-696-95
9	6	100.0	6	7	US-10-719-493-57
10	6	100.0	6	7	US-10-627-331-57
11	6	100.0	6	8	US-10-757-345-49
12	6	100.0	6	8	US-10-757-345-167
13	6	100.0	6	8	US-10-831-775-95
14	6	100.0	6	9	US-10-912-448-9
15	6	100.0	6	9	US-10-627-413-57
16	6	100.0	6	9	US-10-921-086-57
17	6	100.0	6	10	US-11-084-777-66
18	6	100.0	6	10	US-11-071-836-57
19	6	100.0	7	3	US-09-954-967B-120
20	6	100.0	7	5	US-10-023-909A-97
21	6	100.0	7	5	US-10-300-247-97
22	6	100.0	7	6	US-10-187-264A-102
23	6	100.0	7	6	US-10-306-522-102

24	6	100.0	7	6	US-10-434-696-97	Sequence 97, App1
25	6	100.0	7	7	US-10-719-493-102	Sequence 102, App
26	6	100.0	7	7	US-10-627-331-102	Sequence 102, App
27	6	100.0	7	8	US-10-757-345-48	Sequence 48, App1
28	6	100.0	7	8	US-10-831-775-97	Sequence 97, App1
29	6	100.0	7	9	US-10-627-413-102	Sequence 102, App
30	6	100.0	7	9	US-10-921-086-102	Sequence 102, App
31	6	100.0	7	10	US-11-084-777-120	Sequence 120, App
32	6	100.0	7	10	US-11-071-836-102	Sequence 102, App
33	6	100.0	8	5	US-10-034-075-2	Sequence 2, App1
34	6	100.0	8	6	US-10-314-578-1145	Sequence 1145, App
35	6	100.0	8	8	US-10-757-345-47	Sequence 47, App1
36	6	100.0	8	8	US-10-865-245-39	Sequence 39, App1
37	6	100.0	8	8	US-10-865-245-40	Sequence 40, App1
38	6	100.0	8	8	US-10-865-245-44	Sequence 44, App1
39	6	100.0	8	9	US-10-852-598A-65	Sequence 65, App1
40	6	100.0	8	9	US-10-852-598A-69	Sequence 69, App1
41	6	100.0	9	8	US-10-613-524-4	Sequence 4, App1
42	6	100.0	9	8	US-10-865-245-42	Sequence 42, App1
43	6	100.0	9	8	US-10-865-245-43	Sequence 43, App1
44	6	100.0	9	9	US-10-852-598A-75	Sequence 75, App1
45	6	100.0	9	10	US-11-015-458-529	Sequence 529, App
46	6	100.0	9	10	US-11-015-458-530	Sequence 530, App
47	6	100.0	9	10	US-11-015-458-563	Sequence 563, App
48	6	100.0	9	10	US-11-015-458-564	Sequence 564, App
49	6	100.0	9	10	US-11-015-458-591	Sequence 591, App
50	6	100.0	9	10	US-11-015-458-592	Sequence 592, App
51	6	100.0	9	10	US-11-015-458-753	Sequence 753, App
52	6	100.0	9	10	US-11-015-458-754	Sequence 754, App
53	6	100.0	10	3	US-09-154-705A-39	Sequence 39, App1
54	6	100.0	10	5	US-10-033-145-2084	Sequence 2084, App
55	6	100.0	10	6	US-10-330-627-567	Sequence 967, App1
56	6	100.0	10	8	US-10-613-524-26	Sequence 26, App1
57	6	100.0	10	8	US-10-816-220-429	Sequence 429, App
58	6	100.0	10	9	US-10-644-052A-346	Sequence 346, App
59	6	100.0	10	9	US-10-644-052A-360	Sequence 360, App
60	6	100.0	10	9	US-10-486-844-1	Sequence 1, App1
61	6	100.0	10	9	US-10-978-283-10	Sequence 40, App1
62	6	100.0	10	9	US-10-978-283-69	Sequence 69, App1
63	6	100.0	11	7	US-10-279-684A-33	Sequence 33, App1
64	6	100.0	11	8	US-10-613-524-25	Sequence 25, App1
65	6	100.0	11	8	US-10-757-345-26	Sequence 26, App1
66	6	100.0	11	8	US-10-757-345-46	Sequence 46, App1
67	6	100.0	11	8	US-10-757-345-46	Sequence 46, App1
68	6	100.0	11	9	US-10-757-345-159	Sequence 159, App
69	6	100.0	11	9	US-10-644-052A-344	Sequence 344, App
70	6	100.0	11	9	US-10-644-052A-345	Sequence 345, App
71	6	100.0	11	9	US-10-644-052A-359	Sequence 359, App
72	6	100.0	11	9	US-10-952-254-8	Sequence 8, App1
73	6	100.0	11	9	US-10-852-598A-33	Sequence 33, App1
74	6	100.0	11	9	US-10-978-283-41	Sequence 41, App1
75	6	100.0	12	3	US-09-877-526A-36	Sequence 36, App1
76	6	100.0	12	3	US-09-877-526A-38	Sequence 38, App1
77	6	100.0	12	3	US-09-992-160-36	Sequence 36, App1
78	6	100.0	12	3	US-09-992-160-38	Sequence 38, App1
79	6	100.0	12	5	US-10-056-761-36	Sequence 36, App1
80	6	100.0	12	5	US-10-056-761-38	Sequence 38, App1
81	6	100.0	12	6	US-10-217-106-99	Sequence 99, App1
82	6	100.0	12	6	US-10-217-106-100	Sequence 100, App
83	6	100.0	12	6	US-10-237-016-91	Sequence 91, App1
84	6	100.0	12	6	US-10-237-016-92	Sequence 92, App1
85	6	100.0	12	6	US-10-265-031-24	Sequence 24, App1
86	6	100.0	12	6	US-10-314-578-1136	Sequence 1136, App
87	6	100.0	12	6	US-10-182-329-68	Sequence 68, App1
88	6	100.0	12	6	US-10-422-050-16	Sequence 36, App1
89	6	100.0	12	7	US-10-422-050-38	Sequence 38, App1
90	6	100.0	12	7	US-10-279-684A-32	Sequence 32, App1
91	6	100.0	12	8	US-10-613-524-6	Sequence 6, App1
92	6	100.0	12	8	US-10-613-524-14	Sequence 14, App1
93	6	100.0	12	8	US-10-613-524-24	Sequence 24, App1
94	6	100.0	12	8	US-10-757-345-45	Sequence 45, App1
95	6	100.0	12	8	US-10-257-017B-267942	Sequence 267942, App
96	6	100.0	12	8	US-10-257-017B-268035	Sequence 268035, App
97	6	100.0	12	8	US-10-257-017B-268411	Sequence 268411, App

c 97 6 100.0 12 8 US-10-257-017B-270824 Sequence 270824,
98 6 100.0 12 8 US-10-257-017B-271047 Sequence 271047,
99 6 100.0 12 8 US-10-257-017B-271129 Sequence 271129,
c 100 6 100.0 12 8 US-10-257-017B-271143 Sequence 271143,

ALIGNMENTS

RESULT 1
US-09-954-987B-66

; Sequence 66, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; TITLE OF INVENTION: CPG-BASED IMMUNO-AGONIST/ANTAGONIST
; FILE REFERENCE: C1041/7016 (AMS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; PRIOR FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 66
; LENGTH: 6
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-66

Query Match 100.0%; Score 6; DB 3; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
Db 1 GTCGTT 6

RESULT 2
US-10-023-909A-95
; Sequence 95, Application US/10023909A
; Publication No. US20020164341A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim M.
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated Cpg Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7058/HCL
; CURRENT APPLICATION NUMBER: US/10/023,909A
; PRIOR FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 95

; LENGTH: 6
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-023-909A-95

Query Match 100.0%; Score 6; DB 5; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
Db 1 GTCGTT 6

RESULT 3
US-10-300-247-95
; Sequence 95, Application US/10300247
; Publication No. US20030091599A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim M.
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated Cpg Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7058/HCL
; CURRENT APPLICATION NUMBER: US/10/300,247
; PRIOR FILING DATE: 2002-11-20
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 95
; LENGTH: 6
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-300-247-95

Query Match 100.0%; Score 6; DB 5; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
Db 1 GTCGTT 6

RESULT 4
US-10-253-117-24
; Sequence 24, Application US/10253117
; Publication No. US20030119773A1
; GENERAL INFORMATION:
; APPLICANT: RAZ, Eyal R.
; APPLICANT: KOBAYASHI, Hiroko
; TITLE OF INVENTION: METHOD FOR ENHANCING AN IMMUNE RESPONSE
; FILE REFERENCE: 30448.64US01
; CURRENT APPLICATION NUMBER: US/10/253,117
; PRIOR FILING DATE: 2002-09-23
; PRIOR APPLICATION NUMBER: US/09/347,343
; PRIOR FILING DATE: 1999-07-02
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 6

TYPE: DNA
ORGANISM: synthetic oligonucleotide
US-10-253-117-24

Query Match 100.0%; Score 6; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
Db 1 GTCGTT 6

RESULT 5
US-10-187-264A-57

Sequence 57, Application US/10187264A
Publication No. US20030162734A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Methods for Treating and Preventing
FILE REFERENCE: C01039.70062.US
CURRENT APPLICATION NUMBER: US/10/187,264A
CURRENT FILING DATE: 2002-06-28
PRIOR APPLICATION NUMBER: US 09/630,319
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: US 08/960,774
PRIOR FILING DATE: 1997-10-30
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 124
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO: 57
LENGTH: 6
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-187-264A-57

Query Match 100.0%; Score 6; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
Db 1 GTCGTT 6

RESULT 6
US-10-306-522-57

Sequence 57, Application US/10306522
Publication No. US20030191079A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Methods for Treating and Preventing
FILE REFERENCE: C01039.70062.US
CURRENT APPLICATION NUMBER: US/10/306,522
CURRENT FILING DATE: 2002-11-27
PRIOR APPLICATION NUMBER: US 09/630,319
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: US 08/960,774
PRIOR FILING DATE: 1997-10-30
PRIOR APPLICATION NUMBER: US 08/738,652

PRIOR FILING DATE: 1996-10-30
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 124
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO: 57
LENGTH: 6
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-306-522-57

Query Match 100.0%; Score 6; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
Db 1 GTCGTT 6

RESULT 7
US-10-314-578-1144
Sequence 1144, Application US/10314578
Publication No. US20030212026A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Schetter, Christian
APPLICANT: Vollmer, Jörg
TITLE OF INVENTION: Immunostimulatory Nucleic Acids
FILE REFERENCE: C1039/7035 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/10/314,578
CURRENT FILING DATE: 2002-12-09
PRIOR APPLICATION NUMBER: US 60/156,113
PRIOR FILING DATE: 1999-09-25
PRIOR APPLICATION NUMBER: US 60/156,135
PRIOR FILING DATE: 1999-09-27
PRIOR APPLICATION NUMBER: US 60/227,436
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 1145
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO: 1144
LENGTH: 6
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-10-314-578-1144

Query Match 100.0%; Score 6; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
Db 1 GTCGTT 6

RESULT 8
US-10-434-696-95
Sequence 95, Application US/10434696
Publication No. US20030224010A1
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Schott, Joachim
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Use of Nucleic Acids Containing
FILE REFERENCE: C1039/7058/HCL
CURRENT APPLICATION NUMBER: US/10/434,696

```

; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 95
; LENGTH: 6
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-434-696-95
```

```

Query Match          100.0%; Score 6; DB 6; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GTCGTT 6
        |||||
Db      1 GTCGTT 6
```

RESULT 9
US-10-719-493-57

```

; Sequence 57, Application US/10719493
; Publication No. US20040087538A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
```

```

; TITLE OF INVENTION: Methods of Treating Cancer Using
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/10/719,493
```

```

; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 08/960,774
```

```

; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
```

```

; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
```

```

; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
```

```

; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 6
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-719-493-57
```

```

Query Match          100.0%; Score 6; DB 7; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GTCGTT 6
        |||||
Db      1 GTCGTT 6
```

RESULT 10
US-10-627-331-57

```

; Sequence 57, Application US/10627331
; Publication No. US20040106568A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
```

```

; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kriegl, Arthur M.
```

```

; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; FILE REFERENCE: C01039.70062.US
; CURRENT APPLICATION NUMBER: US/10/627,331
; CURRENT FILING DATE: 2003-07-25
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 6
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-627-331-57
```

```

Query Match          100.0%; Score 6; DB 7; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GTCGTT 6
        |||||
Db      1 GTCGTT 6
```

RESULT 11

US-10-757-345-49

```

; Sequence 49, Application US/10757345
; Publication No. US20040198685A1
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, SUDHIR
```

```

; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: WESTBRO, DONG YU
```

```

; APPLICANT: KANDIMOLLA, EKAMBAR R.
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
```

```

; FILE REFERENCE: HYB-018US1
; CURRENT APPLICATION NUMBER: US/10/757,345
```

```

; CURRENT FILING DATE: 2004-01-14
; CURRENT APPLICATION NUMBER: 60/440,587
```

```

; PRIOR FILING DATE: 2003-01-16
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 49
; LENGTH: 6
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-757-345-49
```

```

Query Match          100.0%; Score 6; DB 8; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GTCGTT 6
        |||||
Db      1 GTCGTT 6
```

RESULT 12

US-10-757-345-167
 ; Sequence 167, Application US/10757345
 ; Publication No. US20040198685A1
 ; GENERAL INFORMATION:
 ; APPLICANT: AGRAWAL, SUDHIR
 ; APPLICANT: BHAGAT, LAKSHMI
 ; APPLICANT: WESTBORO, DONG YU
 ; APPLICANT: KANDIMALLA, EKAMBAR R.
 ; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
 ; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
 ; FILE REFERENCE: HYB-018US1
 ; CURRENT APPLICATION NUMBER: US/10/757,345
 ; PRIOR FILING DATE: 2004-01-14
 ; PRIOR APPLICATION NUMBER: 60/440,587
 ; PRIOR FILING DATE: 2003-01-16
 ; NUMBER OF SEQ ID NOS: 192
 ; SOFTWARE: Patent In Ver. 3.2
 ; SEQ ID NO: 167
 ; LENGTH: 6
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
 ; OTHER INFORMATION: oligonucleotide
 US-10-757-345-167

Query Match 100.0%; Score 6; DB 8; Length 6;
 Best Local Similarity 100.0%; Pred. No. 1.3e+09;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
 Db 1 GTCGTT 6

RESULT 13
 US-10-831-775-95
 ; Sequence 95, Application US/10831775
 ; Publication No. US20050043529A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Davis, Heather L.
 ; APPLICANT: Schorr, Joachim
 ; APPLICANT: Krieg, Arthur M.
 ; TITLE OF INVENTION: Use of Nucleic Acids Containing
 ; FILE REFERENCE: C1039/7058/HCL
 ; CURRENT APPLICATION NUMBER: US/10/831,775
 ; CURRENT FILING DATE: 2004-04-23
 ; PRIOR APPLICATION NUMBER: US 09/325,193
 ; PRIOR FILING DATE: 1999-06-03
 ; PRIOR APPLICATION NUMBER: US 09/154,614
 ; PRIOR FILING DATE: 1998-09-16
 ; PRIOR APPLICATION NUMBER: PCT/US98/04703
 ; PRIOR FILING DATE: 1998-03-10
 ; PRIOR APPLICATION NUMBER: US 60/040,376
 ; PRIOR FILING DATE: 1997-03-10
 ; NUMBER OF SEQ ID NOS: 98
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO: 95
 ; LENGTH: 6
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Oligonucleotide
 US-10-831-775-95

Query Match 100.0%; Score 6; DB 8; Length 6;
 Best Local Similarity 100.0%; Pred. No. 1.3e+09;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
 Db 1 GTCGTT 6

Db 1 GTCGTT 6
 RESULT 14
 US-10-912-448-9
 ; Sequence 9, Application US/10912448
 ; Publication No. US20050089933A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Friedman, Steve
 ; APPLICANT: Druetz, David
 ; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR SURROGATE
 ; TITLE OF INVENTION: ANTIBODY MODULATION OF AN IMMUNE RESPONSE AND TRANSPORT
 ; FILE REFERENCE: 035796/281550
 ; CURRENT APPLICATION NUMBER: US/10/912,448
 ; CURRENT FILING DATE: 2004-08-05
 ; PRIOR APPLICATION NUMBER: PCT/US03/05000
 ; PRIOR FILING DATE: 2003-02-19
 ; PRIOR APPLICATION NUMBER: 60/358,459
 ; PRIOR FILING DATE: 2002-02-19
 ; NUMBER OF SEQ ID NOS: 25
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO: 9
 ; LENGTH: 6
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Immunomodulatory nucleic acid motif.
 US-10-912-448-9

Query Match 100.0%; Score 6; DB 9; Length 6;
 Best Local Similarity 100.0%; Pred. No. 1.3e+09;
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
 Db 1 GTCGTT 6

RESULT 15
 US-10-627-413-57
 ; Sequence 57, Application US/10627413
 ; Publication No. US20050101554A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Krieg, Arthur M.
 ; APPLICANT: Klinman, Dennis
 ; APPLICANT: Steinberg, Alfred D.
 ; TITLE OF INVENTION: Methods for Treating and Preventing
 ; TITLE OF INVENTION: Infectious Disease
 ; FILE REFERENCE: C01039.70062.US
 ; CURRENT APPLICATION NUMBER: US/10/627,413
 ; CURRENT FILING DATE: 2003-07-25
 ; PRIOR APPLICATION NUMBER: US 09/630,319
 ; PRIOR FILING DATE: 2000-07-31
 ; PRIOR APPLICATION NUMBER: US 08/960,774
 ; PRIOR FILING DATE: 1997-10-30
 ; PRIOR APPLICATION NUMBER: US 08/738,652
 ; PRIOR FILING DATE: 1996-10-30
 ; PRIOR APPLICATION NUMBER: US 08/386,063
 ; PRIOR FILING DATE: 1995-02-07
 ; PRIOR APPLICATION NUMBER: US 08/276,358
 ; PRIOR FILING DATE: 1994-07-15
 ; NUMBER OF SEQ ID NOS: 124
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO: 57
 ; LENGTH: 6
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Oligonucleotide
 US-10-627-413-57

Query Match 100.0%; Score 6; DB 9; Length 6;
 Best Local Similarity 100.0%; Pred. No. 1.3e+09;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||

Db 1 GTCGTT 6

RESULT 16

US-10-921-086-57

; Sequence 57, Application US/10921086

; Publication No. US20050101557A1

; GENERAL INFORMATION:

; APPLICANT: Kriegl, Arthur M.

; APPLICANT: Kline, Joel N.

; TITLE OF INVENTION: Methods of Treating Allergic and

; FILE REFERENCE: C1039/7020/HCL

; CURRENT FILING DATE: 2004-08-17

; PRIOR FILING DATE: 1999-06-21

; PRIOR FILING DATE: 1997-10-30

; PRIOR FILING DATE: 1996-10-30

; PRIOR FILING DATE: 1995-02-07

; PRIOR FILING DATE: 1994-07-15

; NUMBER OF SEQ ID NOS: 123

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 57

; LENGTH: 6

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Oligonucleotide

US-10-921-086-57

Query Match 100.0%; Score 6; DB 9; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||

Db 1 GTCGTT 6

RESULT 17

US-11-084-777-66

; Sequence 66, Application US/11084777

; Publication No. US20050181422A1

; GENERAL INFORMATION:

; APPLICANT: Stefan Bauer

; APPLICANT: Hermann Wagner

; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF

; FILE REFERENCE: C1041.70016US02

; CURRENT FILING DATE: 2005-03-18

; PRIOR FILING DATE: 2001-09-17

; PRIOR FILING DATE: 2001-06-22

; PRIOR FILING DATE: 2001-05-17

; PRIOR FILING DATE: 2001-01-23

; PRIOR FILING DATE: 2000-09-15

; NUMBER OF SEQ ID NOS: 230

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 66

; LENGTH: 6

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

US-11-084-777-66

Query Match 100.0%; Score 6; DB 10; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||

Db 1 GTCGTT 6

RESULT 18

US-11-071-836-57

; Sequence 57, Application US/11071836

; Publication No. US20050182017A1

; GENERAL INFORMATION:

; APPLICANT: Kriegl, Arthur M.

; TITLE OF INVENTION: Methods of Redirecting an Immune

; FILE REFERENCE: C1039/7022/HCL

; CURRENT FILING DATE: 2005-03-03

; PRIOR FILING DATE: 1997-10-30

; PRIOR FILING DATE: 1997-10-30

; PRIOR FILING DATE: 1996-10-30

; PRIOR FILING DATE: 1995-02-07

; PRIOR FILING DATE: 1994-07-15

; NUMBER OF SEQ ID NOS: 123

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 57

; LENGTH: 6

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Oligonucleotide

US-11-071-836-57

Query Match 100.0%; Score 6; DB 10; Length 6;
Best Local Similarity 100.0%; Pred. No. 1.3e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||||

Db 1 GTCGTT 6

RESULT 19

US-09-954-987B-120

; Sequence 120, Application US/09954987B

; Publication No. US20030104523A1

; GENERAL INFORMATION:

; APPLICANT: Stefan Bauer

; APPLICANT: Grayson B. Lipford

; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF

; FILE REFERENCE: C1041/7016 (AMS)

; CURRENT FILING DATE: 2001-09-17

; PRIOR FILING DATE: 2001-01-23

; PRIOR FILING DATE: 2000-09-15

; PRIOR FILING DATE: 2001-01-23

; NUMBER OF SEQ ID NOS: 230

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 66

; LENGTH: 6

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Oligonucleotide

US-11-071-836-57

PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 60/300,210
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 230
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 120
LENGTH: 7
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-120

Query Match 100.0%; Score 6; DB 3; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||
Db 2 GTCGTT 7

RESULT 20
US-10-023-909A-97
Sequence 97, Application US/10023909A
Publication No. US20020164341A1
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Schorr, Joachim
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Use of Nucleic Acids Containing
FILE REFERENCE: C1039/7058/HCL
CURRENT FILING DATE: 2001-12-18
PRIOR FILING DATE: 1999-06-03
PRIOR APPLICATION NUMBER: US 09/325,193
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/04703
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: US 60/040,376
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 98
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 97
LENGTH: 7
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-023-909A-97

Query Match 100.0%; Score 6; DB 5; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||
Db 2 GTCGTT 7

RESULT 21
US-10-300-247-97
Sequence 97, Application US/10300247
Publication No. US20030091599A1
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Schorr, Joachim
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Use of Nucleic Acids Containing
FILE REFERENCE: C1039/7058/HCL

CURRENT APPLICATION NUMBER: US/10/300,247
CURRENT FILING DATE: 2002-11-20
PRIOR APPLICATION NUMBER: US 09/325,193
PRIOR FILING DATE: 1999-06-03
PRIOR APPLICATION NUMBER: US 09/154,614
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/04703
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: US 60/040,376
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 98
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 97
LENGTH: 7
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-300-247-97

Query Match 100.0%; Score 6; DB 5; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||
Db 2 GTCGTT 7

RESULT 22
US-10-187-264A-102
Sequence 102, Application US/10187264A
Publication No. US20030162734A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Methods for Treating and Preventing
FILE REFERENCE: C01039.70062.US
CURRENT APPLICATION NUMBER: US/10/187,264A
CURRENT FILING DATE: 2002-06-28
PRIOR APPLICATION NUMBER: US 09/630,319
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: US 08/960,774
PRIOR FILING DATE: 1997-10-30
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 124
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 102
LENGTH: 7
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-187-264A-102

Query Match 100.0%; Score 6; DB 6; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
|||
Db 2 GTCGTT 7

RESULT 23
US-10-306-522-102

```
; Sequence 102, Application US/10306522
; Publication No. US20030191079A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; TITLE OF INVENTION: Infectious Disease
; FILE REFERENCE: C01039.70062.US
; CURRENT APPLICATION NUMBER: US/10/306,522
; CURRENT FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 102
; LENGTH: 7
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-306-522-102
```

```
Query Match          100.0%; Score 6; DB 6; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GTCGTT 6
        |||||
Db      2 GTCGTT 7
```

```
RESULT 24
US-10-434-696-97
; Sequence 97, Application US/10434696
; Publication No. US20030224010A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7058/HCL
; CURRENT APPLICATION NUMBER: US/10/434,696
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 97
; LENGTH: 7
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-434-696-97
```

```
Query Match          100.0%; Score 6; DB 6; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
```

```
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GTCGTT 6
        |||||
Db      2 GTCGTT 7
```

```
RESULT 25
US-10-719-493-102
; Sequence 102, Application US/10719493
; Publication No. US20040087538A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/10/719,493
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 102
; LENGTH: 7
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-719-493-102
```

```
Query Match          100.0%; Score 6; DB 7; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GTCGTT 6
        |||||
Db      2 GTCGTT 7
```

```
RESULT 26
US-10-627-331-102
; Sequence 102, Application US/10627331
; Publication No. US20040106568A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; FILE REFERENCE: C01039.70062.US
; CURRENT APPLICATION NUMBER: US/10/627,331
; CURRENT FILING DATE: 2003-07-25
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 102
; LENGTH: 7
; TYPE: DNA
```

```
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-627-331-102
```

```
Query Match          100.0%; Score 6; DB 7; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GTCGTT 6
        |||||
Db      2 GTCGTT 7
```

```
RESULT 27
US-10-757-345-48
; Sequence 48, Application US/10757345
; Publication No. US20040198685A1
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: WESTBORO, DONG YU
; APPLICANT: KANDIMALLA, EKAMBAR R.
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
; TITLE OF INVENTION: IMMUNOSTIMULATORY DINUCLEOTIDES
; FILE REFERENCE: HYB-0180U1
; CURRENT APPLICATION NUMBER: US/10/757,345
; CURRENT FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: 60/440,587
; PRIOR FILING DATE: 2003-01-16
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 48
; LENGTH: 7
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Oligonucleotide
US-10-757-345-48
```

```
Query Match          100.0%; Score 6; DB 8; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GTCGTT 6
        |||||
Db      1 GTCGTT 6
```

```
RESULT 28
US-10-831-775-97
; Sequence 97, Application US/10831775
; Publication No. US20050043529A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7058/HCL
; CURRENT APPLICATION NUMBER: US/10/831,775
; CURRENT FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
```

```
SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 97
; LENGTH: 7
; TYPE: DNA
```

```
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-831-775-97
```

```
Query Match          100.0%; Score 6; DB 8; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GTCGTT 6
        |||||
Db      2 GTCGTT 7
```

```
RESULT 29
US-10-627-413-102
; Sequence 102, Application US/10627413
; Publication No. US20050101554A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; TITLE OF INVENTION: Infectious Disease
; FILE REFERENCE: C01039.70062.US
; CURRENT APPLICATION NUMBER: US/10/627,413
; CURRENT FILING DATE: 2003-07-25
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 102
; LENGTH: 7
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-627-413-102
```

```
Query Match          100.0%; Score 6; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 GTCGTT 6
        |||||
Db      2 GTCGTT 7
```

```
RESULT 30
US-10-921-086-102
; Sequence 102, Application US/10921086
; Publication No. US20050101557A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; TITLE OF INVENTION: Methods of Treating Allergic and
; TITLE OF INVENTION: Asthmatic Disorders Using Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7020/HCL
; CURRENT APPLICATION NUMBER: US/10/921,086
; CURRENT FILING DATE: 2004-08-17
; PRIOR APPLICATION NUMBER: US/09/337,584
```

```

; PRIOR FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 102
; LENGTH: 7
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-921-086-102
```

```

Query Match          100.0%; Score 6; DB 9; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GTCGTT 6
        |||||
Db       2 GTCGTT 7
```

```

RESULT 31
US-11-084-777-120
; Sequence 120, Application US/11084777
; Publication No. US20050181422A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041.70016US02
; CURRENT APPLICATION NUMBER: US/11/084,777
; PRIOR FILING DATE: 2005-03-18
; PRIOR APPLICATION NUMBER: US 09/954,987
; PRIOR FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/223,035
; PRIOR FILING DATE: 2000-09-15
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 120
; LENGTH: 7
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-084-777-120
```

```

Query Match          100.0%; Score 6; DB 10; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GTCGTT 6
        |||||
Db       2 GTCGTT 7
```

```

RESULT 32
US-11-071-836-102
; Sequence 102, Application US/11071836
```

```

; Publication No. US20050182017A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Methods of Redirecting an Immune
; FILE REFERENCE: C1039/7022/HCL
; CURRENT APPLICATION NUMBER: US/11/071,836
; PRIOR FILING DATE: 2005-03-03
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 102
; LENGTH: 7
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-11-071-836-102
```

```

Query Match          100.0%; Score 6; DB 10; Length 7;
Best Local Similarity 100.0%; Pred. No. 1.2e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GTCGTT 6
        |||||
Db       2 GTCGTT 7
```

```

RESULT 33
US-10-034-075-2
; Sequence 2, Application US/10034075
; Publication No. US20020164778A1
; GENERAL INFORMATION:
; APPLICANT: KAJIYAMA, Tomoharu,
; APPLICANT: MIYAHARA, Yuji,
; APPLICANT: MURAKAWA, Katsunji
; TITLE OF INVENTION: Advanced Thermal Gradient DNA Chip (ATGC), the Substrate
; TITLE OF INVENTION: for ATGC, Method for Manufacturing for ATGC, Method and Apparatu
; FILE REFERENCE: PH-790US
; CURRENT APPLICATION NUMBER: US/10/034,075
; PRIOR FILING DATE: 2002-01-03
; PRIOR APPLICATION NUMBER: JP-356433/1999
; PRIOR FILING DATE: 1999-12-15
; NUMBER OF SEQ ID NOS: 7
; SEQ ID NO 2
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DNA probe hybridizing with DNA fragment
US-10-034-075-2
```

```

Query Match          100.0%; Score 6; DB 5; Length 8;
Best Local Similarity 100.0%; Pred. No. 1e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GTCGTT 6
        |||||
Db       3 GTCGTT 8
```

```

RESULT 34
US-10-314-578-1145
; Sequence 1145, Application US/10314578
; Publication No. US20030212026A1
```

```

; GENERAL INFORMATION:
; APPLICANT: Kries, Arthur M.
; APPLICANT: Schetter, Christian
; APPLICANT: Volmer, Jorg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/314,578
; PRIOR FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-25
; PRIOR APPLICATION NUMBER: US 60/156,135
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 60/227,436
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1145
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; US-10-314-578-1145

Query Match          100.0%; Score 6; DB 6; Length 8;
Best Local Similarity 100.0%; Pred. No. 1e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
    |||||
Db 3 GTCGTT 8

RESULT 35
; US-10-757-345-47
; Sequence 47, Application US/10757345
; Publication No. US20040198685A1
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: WESTBORO, DONG YU
; APPLICANT: KANDIMALLA, EKAMBAR R.
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
; TITLE OF INVENTION: IMMUNOSTIMULATORY DINUCLEOTIDES
; FILE REFERENCE: HYB-018US1
; CURRENT APPLICATION NUMBER: US/10/757,345
; CURRENT FILING DATE: 2004-01-14
; PRIOR APPLICATION NUMBER: 60/440,587
; PRIOR FILING DATE: 2003-01-16
; NUMBER OF SEQ ID NOS: 192
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 47
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; US-10-757-345-47

Query Match          100.0%; Score 6; DB 8; Length 8;
Best Local Similarity 100.0%; Pred. No. 1e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
    |||||
Db 1 GTCGTT 6

RESULT 36
; US-10-865-245-39
; Sequence 39, Application US/10865245
```

```

; Publication No. US20050026861A1
; GENERAL INFORMATION:
; APPLICANT: KANDIMALLA, EKAMBAR R.
; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: PANDEY, RAJENDRA K.
; APPLICANT: YU, DONG
; APPLICANT: AGRAMAL, SUDHIR
; TITLE OF INVENTION: STABILIZED IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: HYB-021US1
; CURRENT APPLICATION NUMBER: US/10/865,245
; CURRENT FILING DATE: 2004-06-10
; PRIOR APPLICATION NUMBER: 60/477,608
; PRIOR FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: 60/499,038
; PRIOR FILING DATE: 2003-08-29
; PRIOR APPLICATION NUMBER: 60/504,279
; PRIOR FILING DATE: 2003-09-18
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 40
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (1)..(8)
; US-10-865-245-39

Query Match          100.0%; Score 6; DB 8; Length 8;
Best Local Similarity 100.0%; Pred. No. 1e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
    |||||
Db 3 GTCGTT 8

RESULT 37
; US-10-865-245-40
; Sequence 40, Application US/10865245
; Publication No. US20050026861A1
; GENERAL INFORMATION:
; APPLICANT: KANDIMALLA, EKAMBAR R.
; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: PANDEY, RAJENDRA K.
; APPLICANT: YU, DONG
; APPLICANT: AGRAMAL, SUDHIR
; TITLE OF INVENTION: STABILIZED IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: HYB-021US1
; CURRENT APPLICATION NUMBER: US/10/865,245
; CURRENT FILING DATE: 2004-06-10
; PRIOR APPLICATION NUMBER: 60/477,608
; PRIOR FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: 60/499,038
; PRIOR FILING DATE: 2003-08-29
; PRIOR APPLICATION NUMBER: 60/504,279
; PRIOR FILING DATE: 2003-09-18
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 40
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; NAME/KEY: misc feature
; LOCATION: (1)..(8)
; US-10-865-245-40
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; OTHER INFORMATION: phosphorothioate
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (3)
; OTHER INFORMATION: 2'-deoxy-7-deaza-G
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (6)
; OTHER INFORMATION: 2'-deoxy-7-deaza-G
US-10-865-245-40

Query Match          100.0%; Score 6; DB 8; Length 8;
Best Local Similarity 100.0%; Pred. No. 1e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
    |||||
Db 3 GTCGTT 8

RESULT 38
US-10-865-245-44
; Sequence 44, Application US/10865245
; Publication No. US20050026861A1
; GENERAL INFORMATION:
; APPLICANT: KANDIMALA, EKAMBAR R.
; APPLICANT: BHAGAT, LAKSHMI
; APPLICANT: PANDEY, RAJENDRA K.
; APPLICANT: YU, DONG
; APPLICANT: AGRAWAL, SUDHIR
; TITLE OF INVENTION: STABILIZED IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: HYB-021US1
; CURRENT APPLICATION NUMBER: US/10/865,245
; CURRENT FILING DATE: 2004-06-10
; PRIOR APPLICATION NUMBER: 60/477,608
; PRIOR FILING DATE: 2003-06-11
; PRIOR APPLICATION NUMBER: 60/499,038
; PRIOR FILING DATE: 2003-08-29
; PRIOR APPLICATION NUMBER: 60/504,279
; PRIOR FILING DATE: 2003-09-18
; NUMBER OF SEQ ID NOS: 76
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 44
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(8)
; OTHER INFORMATION: phosphodiester
US-10-865-245-44

Query Match          100.0%; Score 6; DB 8; Length 8;
Best Local Similarity 100.0%; Pred. No. 1e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
    |||||
Db 3 GTCGTT 8

RESULT 39
US-10-852-598A-65
; Sequence 65, Application US/10852598A
; Publication No. US20050130918A1
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, SUDHIR
; APPLICANT: KANDIMALA, EKAMBAR
; APPLICANT: ZHU, FU-GANG
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES BY
```

```

; TITLE OF INVENTION: SMALL OLIGONUCLEOTIDE-BASED COMPOUNDS
; FILE REFERENCE: HYB-026US1
; CURRENT APPLICATION NUMBER: US/10/852,598A
; CURRENT FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: 60/528,277
; PRIOR FILING DATE: 2003-12-08
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 65
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-10-852-598A-65

Query Match          100.0%; Score 6; DB 9; Length 8;
Best Local Similarity 100.0%; Pred. No. 1e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
    |||||
Db 3 GTCGTT 8

RESULT 40
US-10-852-598A-69
; Sequence 69, Application US/10852598A
; Publication No. US20050130918A1
; GENERAL INFORMATION:
; APPLICANT: AGRAWAL, SUDHIR
; APPLICANT: KANDIMALA, EKAMBAR
; APPLICANT: ZHU, FU-GANG
; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES BY
; TITLE OF INVENTION: SMALL OLIGONUCLEOTIDE-BASED COMPOUNDS
; FILE REFERENCE: HYB-026US1
; CURRENT APPLICATION NUMBER: US/10/852,598A
; CURRENT FILING DATE: 2004-05-24
; PRIOR APPLICATION NUMBER: 60/528,277
; PRIOR FILING DATE: 2003-12-08
; NUMBER OF SEQ ID NOS: 93
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 69
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)..(8)
; OTHER INFORMATION: phosphodiester
US-10-852-598A-69

Query Match          100.0%; Score 6; DB 9; Length 8;
Best Local Similarity 100.0%; Pred. No. 1e+09;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
    |||||
Db 3 GTCGTT 8

Search completed: March 8, 2006, 20:43:23
Job time : 126.717 secs
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 01:35:44 ; Search time 26.9434 Seconds

(without alignments)
395.844 Million cell updates/sec

Title: US-09-337-584-57

Perfect score: 6

1 gtcgtc 6

Scoring table:

IDENTITY_NUC
Gapop 10.0' , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

Issued Patents NA:*

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4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*

5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*

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7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*

8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*

9: /cgn2_6/ptodata/1/ina/Backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	6	100.0	6	3	US-09-030-701-49	Sequence 49, Appli
2	6	100.0	6	3	US-08-960-774-57	Sequence 57, Appli
3	6	100.0	6	3	US-09-325-193A-95	Sequence 95, Appli
4	6	100.0	6	3	US-09-347-343-24	Sequence 24, Appli
5	6	100.0	6	3	US-09-337-619-57	Sequence 57, Appli
6	6	100.0	6	3	US-09-954-987B-66	Sequence 66, Appli
7	6	100.0	7	3	US-09-030-701-17	Sequence 17, Appli
8	6	100.0	7	3	US-09-325-193A-97	Sequence 97, Appli
9	6	100.0	7	3	US-09-954-987B-120	Sequence 120, App
10	6	100.0	8	2	US-07-949-541A-5	Sequence 5, Appli
11	6	100.0	8	2	US-07-949-541A-9	Sequence 9, Appli
12	6	100.0	8	2	US-07-949-541A-14	Sequence 14, Appli
13	6	100.0	8	3	US-09-527-234A-2	Sequence 2, Appli
14	6	100.0	8	3	US-09-527-234A-2	Sequence 2, Appli
15	6	100.0	8	3	US-09-527-233B-2	Sequence 2, Appli
16	6	100.0	8	3	US-09-527-440-2	Sequence 39, Appli
17	6	100.0	10	3	US-09-154-750A-39	Sequence 42, App
18	6	100.0	10	3	US-09-508-753B-422	Sequence 430, App
19	6	100.0	10	3	US-09-508-753B-430	Sequence 8, Appli
20	6	100.0	12	2	US-08-053-131-8	Sequence 8, Appli
21	6	100.0	12	2	US-08-645-641-8	Sequence 8, Appli
22	6	100.0	12	2	US-07-853-408B-8	Sequence 8, Appli
23	6	100.0	12	2	US-08-096-762-6	Sequence 8, Appli
24	6	100.0	12	2	US-08-096-762-6	Sequence 8, Appli

25	C	100.0	12	2	US-08-308-865-8	Sequence 8, Appli
26	C	100.0	12	2	US-08-613-965-6	Sequence 6, Appli
27	C	100.0	12	2	US-08-918-966-6	Sequence 6, Appli
28	C	100.0	12	3	US-08-921-655-6	Sequence 6, Appli
29	C	100.0	12	3	US-09-042-353-160	Sequence 160, App
30	C	100.0	12	3	US-09-281-418-31	Sequence 31, Appli
31	C	100.0	12	3	US-08-758-417A-8	Sequence 8, Appli
32	C	100.0	12	6	PCR-US92-10983-8	Sequence 8, Appli
33	C	100.0	13	3	US-09-336-228B-9	Sequence 9, Appli
34	C	100.0	13	3	US-09-030-701-56	Sequence 56, Appli
35	C	100.0	13	3	US-09-285-098-98	Sequence 98, Appli
36	C	100.0	13	3	US-08-960-774-85	Sequence 85, Appli
37	C	100.0	13	3	US-09-325-193A-84	Sequence 84, Appli
38	C	100.0	13	3	US-09-191-170-92	Sequence 92, Appli
39	C	100.0	13	3	US-08-862-629B-6	Sequence 6, Appli
40	C	100.0	13	3	US-08-862-629B-7	Sequence 7, Appli
41	C	100.0	13	3	US-08-862-629B-8	Sequence 8, Appli
42	C	100.0	13	3	US-09-083-235A-6	Sequence 6, Appli
43	C	100.0	13	3	US-09-083-235A-7	Sequence 7, Appli
44	C	100.0	13	3	US-09-083-235A-8	Sequence 8, Appli
45	C	100.0	13	3	US-09-337-619-85	Sequence 85, Appli
46	C	100.0	13	3	US-09-214-403B-32	Sequence 32, Appli
47	C	100.0	13	3	US-09-214-403B-42	Sequence 42, Appli
48	C	100.0	13	3	US-09-214-403B-43	Sequence 43, Appli
49	C	100.0	13	3	US-09-214-403B-56	Sequence 56, Appli
50	C	100.0	13	3	US-09-214-403B-57	Sequence 57, Appli
51	C	100.0	13	3	US-09-954-987B-121	Sequence 121, App
52	C	100.0	13	3	US-09-672-126B-113	Sequence 11, App
53	C	100.0	14	2	US-08-366-783-10	Sequence 10, Appli
54	C	100.0	14	3	US-08-834-776A-5	Sequence 5, Appli
55	C	100.0	14	3	US-09-078-283A-1	Sequence 1, Appli
56	C	100.0	14	3	US-09-383-198-3	Sequence 3, Appli
57	C	100.0	14	3	US-09-030-701-12	Sequence 12, Appli
58	C	100.0	14	3	US-09-286-098-97	Sequence 97, Appli
59	C	100.0	14	3	US-08-960-774-45	Sequence 51, Appli
60	C	100.0	14	3	US-09-325-193A-83	Sequence 83, Appli
61	C	100.0	14	3	US-09-191-170-91	Sequence 91, Appli
62	C	100.0	14	3	US-09-670-701-3	Sequence 3, Appli
63	C	100.0	14	3	US-09-337-619-51	Sequence 51, Appli
64	C	100.0	14	3	US-09-897-445-14	Sequence 14, Appli
65	C	100.0	14	3	US-09-495-947-12	Sequence 12, Appli
66	C	100.0	14	3	US-09-954-987B-109	Sequence 109, App
67	C	100.0	14	3	US-09-672-126B-105	Sequence 105, App
68	C	100.0	14	9	5256558-10	Patent No. 5256558
69	C	100.0	14	9	5256558-11	Patent No. 5256558
70	C	100.0	14	9	5256558-11	Patent No. 5256558
71	C	100.0	15	2	US-08-272-372-1	Sequence 1, Appli
72	C	100.0	15	2	US-08-145-704-45	Sequence 45, Appli
73	C	100.0	15	2	US-08-182-968A-446	Sequence 446, App
74	C	100.0	15	2	US-08-182-968A-447	Sequence 447, App
75	C	100.0	15	2	US-08-182-968A-448	Sequence 448, App
76	C	100.0	15	2	US-08-292-620A-87	Sequence 87, Appli
77	C	100.0	15	2	US-08-441-887A-313	Sequence 313, App
78	C	100.0	15	2	US-08-441-887A-314	Sequence 314, App
79	C	100.0	15	2	US-08-441-887A-315	Sequence 315, App
80	C	100.0	15	2	US-08-441-887A-316	Sequence 316, App
81	C	100.0	15	2	US-08-774-306A-446	Sequence 446, App
82	C	100.0	15	2	US-08-774-306A-447	Sequence 447, App
83	C	100.0	15	2	US-08-774-306A-448	Sequence 448, App
84	C	100.0	15	2	US-08-585-684B-744	Sequence 744, App
85	C	100.0	15	2	US-08-585-684B-745	Sequence 745, App
86	C	100.0	15	2	US-08-585-684B-746	Sequence 746, App
87	C	100.0	15	2	US-08-585-684B-747	Sequence 747, App
88	C	100.0	15	2	US-08-810-589-71	Sequence 71, Appli
89	C	100.0	15	3	US-08-761-662-4	Sequence 4, Appli
90	C	100.0	15	3	US-09-064-156A-446	Sequence 446, App
91	C	100.0	15	3	US-09-064-156A-447	Sequence 447, App
92	C	100.0	15	3	US-09-064-156A-448	Sequence 448, App
93	C	100.0	15	3	US-09-071-845-87	Sequence 87, Appli
94	C	100.0	15	3	US-08-987-574-45	Sequence 45, Appli
95	C	100.0	15	3	US-08-535-168-45	Sequence 45, Appli
96	C	100.0	15	3	US-09-038-073-744	Sequence 744, App
97	C	100.0	15	3	US-09-038-073-745	Sequence 745, App

98 6 100.0 15 3 US-09-038-073-746
99 6 100.0 15 3 US-09-038-073-747
c 100 6 100.0 15 3 US-09-180-437-186

Sequence 746, App
Sequence 747, App
Sequence 186, App

ALIGNMENTS

RESULT 1

US-09-030-701-49
Sequence 49, Application US/09030701B

Patent No. 6214806

GENERAL INFORMATION:

APPLICANT: Kriegl, Arthur M.

APPLICANT: Schwartz, David A.

TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING

TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF

FILE REFERENCE: C1039/7011

CURRENT APPLICATION NUMBER: US/09/030,701B

CURRENT FILING DATE: 1998-02-25

PRIOR APPLICATION NUMBER: 60/039,405

PRIOR FILING DATE: 1997-02-28

NUMBER OF SEQ ID NOS: 65

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 49

LENGTH: 6

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: synthetic oligonucleotide

US-09-030-701-49

Query Match 100.0% Score 6; DB 3; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.9e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6

Db 1 GTCGTT 6

RESULT 2

US-08-960-774-57

Sequence 57, Application US/08960774

Patent No. 6239116

GENERAL INFORMATION:

APPLICANT: Kriegl et al.

TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES

NUMBER OF SEQUENCES: 111

CORRESPONDENCE ADDRESS:

STREET: 4225 Executive Square, Suite 1400

CITY: La Jolla

STATE: CA

COUNTRY: USA

ZIP: 92037

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: ASCII text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/960,774

FILING DATE: 30-October-1997

CLASSIFICATION: 514

PRIOR APPLICATION DATA:

APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652

FILING DATE: October 30, 1996

CLASSIFICATION: 514

ATTORNEY/AGENT INFORMATION:

NAME: Haile, Lisa A.

REGISTRATION NUMBER: 38,347

REFERENCE/DOCKET NUMBER: 08916/012001

TELECOMMUNICATION INFORMATION:

TELEPHONE: 619/678-5070

TELEFAX: 619/678-5099

INFORMATION FOR SEQ ID NO: 57:

SEQUENCE CHARACTERISTICS:

LENGTH: 6 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: CDNA

US-08-960-774-57

Query Match 100.0% Score 6; DB 3; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.9e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6

Db 1 GTCGTT 6

RESULT 3

US-09-325-193A-95

Sequence 95, Application US/09325193A

Patent No. 6406705

GENERAL INFORMATION:

APPLICANT: Davis, Heather L.

APPLICANT: Schorr, Joachim

TITLE OF INVENTION: Use of Nucleic Acids Containing

TITLE OF INVENTION: Unmethylated Cpg Dinucleotide as an Adjuvant

FILE REFERENCE: C1039/7025/HCL

CURRENT APPLICATION NUMBER: US/09/325,193A

CURRENT FILING DATE: 1999-06-03

PRIOR APPLICATION NUMBER: US 09/154,614

PRIOR FILING DATE: 1998-09-16

PRIOR APPLICATION NUMBER: PCT/US98/04703

PRIOR FILING DATE: 1998-03-10

PRIOR APPLICATION NUMBER: US 60/040,376

PRIOR FILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 98

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 95

LENGTH: 6

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

US-09-325-193A-95

Query Match 100.0% Score 6; DB 3; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.9e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6

Db 1 GTCGTT 6

RESULT 4

US-09-347-343-24

Sequence 24, Application US/09347343A

Patent No. 6514948

GENERAL INFORMATION:

APPLICANT: RAZ, Eyal R.

APPLICANT: KOBAYASHI, Hiroko

TITLE OF INVENTION: METHOD FOR ENHANCING AN IMMUNE RESPONSE

FILE REFERENCE: 30448.64US01

CURRENT APPLICATION NUMBER: US/09/347,343A

CURRENT FILING DATE: 1999-07-02

NUMBER OF SEQ ID NOS: 40

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 24
LENGTH: 6
TYPE: DNA
ORGANISM: synthetic oligonucleotide
US-09-347-343-24

Query Match 100.0%; Score 6; DB 3; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.9e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
|||||
DB 1 GTCGTT 6

RESULT 5
US-09-337-619-57
Sequence 57, Application US/09337619
Patent No. 6653292

GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
TITLE OF INVENTION: Methods of Treating Cancer Using
FILE REFERENCE: C1039/7021/HCL
CURRENT APPLICATION NUMBER: US/09/337,619
CURRENT FILING DATE: 1999-06-21
EARLIER APPLICATION NUMBER: US 08/960,774
EARLIER FILING DATE: 1997-10-30
EARLIER APPLICATION NUMBER: US 08/738,652
EARLIER FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 123
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 57
LENGTH: 6
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-337-619-57

Query Match 100.0%; Score 6; DB 3; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.9e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
|||||
DB 1 GTCGTT 6

RESULT 6
US-09-954-987B-66
Sequence 66, Application US/09954987B
Patent No. 6943240

GENERAL INFORMATION:
APPLICANT: Stefan Bauer
APPLICANT: Grayson B. Lipford
APPLICANT: Hermann Wagner
TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
FILE REFERENCE: C1041/7016 (AMS)
CURRENT APPLICATION NUMBER: US/09/954,987B
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: US 60/233,035
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/263,657
PRIOR FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 60/291,726
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 60/300,210

PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 230
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 66
LENGTH: 6
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-66

Query Match 100.0%; Score 6; DB 3; Length 6;
Best Local Similarity 100.0%; Pred. No. 2.9e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
|||||
DB 1 GTCGTT 6

RESULT 7
US-09-030-701-17
Sequence 17, Application US/09030701B
Patent No. 6214806

GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
APPLICANT: Schwartz, David A.
TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
FILE REFERENCE: C1039/7011
CURRENT APPLICATION NUMBER: US/09/030,701B
CURRENT FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/039,405
PRIOR FILING DATE: 1997-02-28
NUMBER OF SEQ ID NOS: 65
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 17
LENGTH: 7
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-030-701-17

Query Match 100.0%; Score 6; DB 3; Length 7;
Best Local Similarity 100.0%; Pred. No. 2.5e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
|||||
DB 2 GTCGTT 7

RESULT 8
US-09-325-193A-97
Sequence 97, Application US/09325193A
Patent No. 6406705

GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Schott, Joachim
APPLICANT: Kriegl, Arthur M.
TITLE OF INVENTION: Use of Nucleic Acids Containing
TITLE OF INVENTION: Unmethylated Cpg Dinucleotide as an Adjuvant
FILE REFERENCE: C1039/7025/HCL
CURRENT APPLICATION NUMBER: US/09/325,193A
CURRENT FILING DATE: 1999-06-03
PRIOR APPLICATION NUMBER: US 09/154,614
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/04703
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: US 60/040,376
PRIOR FILING DATE: 1997-03-10

NUMBER OF SEQ ID NOS: 98
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 97
LENGTH: 7
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-97

Query Match 100.0%; Score 6; DB 3; Length 7;
Best Local Similarity 100.0%; Pred. No. 2.5e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
DB 2 GTCGTT 7

RESULT 9
US-09-337-619-102
Sequence 102, Application US/09337619
Patent No. 6653292

GENERAL INFORMATION:
APPLICANT: Kries, Arthur M.
TITLE OF INVENTION: Methods of Treating Cancer Using
FILE REFERENCE: C1039/7021/HCL
CURRENT APPLICATION NUMBER: US/09/337,619
EARLIER FILING DATE: 1999-06-21
EARLIER APPLICATION NUMBER: US 08/960,774
EARLIER FILING DATE: 1997-10-30
EARLIER APPLICATION NUMBER: US 08/738,652
EARLIER FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 123
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 102
LENGTH: 7
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-102

Query Match 100.0%; Score 6; DB 3; Length 7;
Best Local Similarity 100.0%; Pred. No. 2.5e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
DB 2 GTCGTT 7

RESULT 10
US-09-954-987B-120
Sequence 120, Application US/09954987B
Patent No. 6943240
GENERAL INFORMATION:
APPLICANT: Stefan Bauer
APPLICANT: Grayson B. Lipford
APPLICANT: Hermann Wagner
TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
TITLE OF INVENTION: CCG-BASED IMMUNO-AGONIST/ANTAGONIST
FILE REFERENCE: C1041/7016 (AMS)
CURRENT APPLICATION NUMBER: US/09/954,987B
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: US 60/233,035
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/263,657

PRIOR FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 60/291,726
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 60/300,210
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 230
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 120
LENGTH: 7
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-120

Query Match 100.0%; Score 6; DB 3; Length 7;
Best Local Similarity 100.0%; Pred. No. 2.5e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
DB 2 GTCGTT 7

RESULT 11
US-07-949-541A-5
Sequence 5, Application US/07949541A
Patent No. 5552270
GENERAL INFORMATION:
APPLICANT: Khrapko, Konstantin R.
APPLICANT: Khorlin, Alexander A.
APPLICANT: Ivanov, Igor B.
APPLICANT: Ershov, Gennady M.
APPLICANT: Lysov, Yuri P.
APPLICANT: Florentiev, Vladimir L.
APPLICANT: Mirzabekov, Andrei D.
TITLE OF INVENTION: Method for Determining a DNA Nucleotide
TITLE OF INVENTION: Sequence and a Device for Carrying Out Same
Patent No. 5552270
NUMBER OF SEQUENCES: 47
CORRESPONDENCE ADDRESS:
ADDRESSER: Ladag & Parry
STREET: 26 West 61st Street
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10023
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM PC/XT/AT or compatibles
OPERATING SYSTEM: DOS
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/949,541A
FILING DATE: 09-No. 5552270-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/RU92/00052
FILING DATE: 18-Mar-1992
APPLICATION NUMBER: Russian Federation 4919321
FILING DATE: 18-Mar-1991
ATTORNEY/AGENT INFORMATION:
NAME: Janet I. Cord
REGISTRATION NUMBER: 33,778
REFERENCE/DOCKET NUMBER: U-8999
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 708-1800
TELEFAX: (212) 246-8959
TELEX: 233288
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 bases
TYPE: nucleic acid
STRANDEDNESS: single

TOPOLOGY: Linear
MOLECULE TYPE: chemically synthesized
FEATURE: oligonucleotide was synthesized by phosphoramidite
FEATURE: method
OTHER INFORMATION: letter M means the tethering to the
OTHER INFORMATION: support via oxidized 3-methyluridine.
US-07-949-541A-5

Query Match 100.0%; Score 6; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.2e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
Db 1 GTCGTT 6

RESULT 12
US-07-949-541A-9
Sequence 9, Application US/07949541A
Patent No. 5552270
GENERAL INFORMATION:
APPLICANT: Khrapko, Konstantin R.
APPLICANT: Khorlin, Alexander A.
APPLICANT: Ivanov, Igor B.
APPLICANT: Ershov, Gennady M.
APPLICANT: Lysov, Yuri P.
APPLICANT: Florentiev, Vladimir L.
APPLICANT: Mirzabekov, Andrei D.
TITLE OF INVENTION: Method for Determining a DNA Nucleotide
TITLE OF INVENTION: Sequence and a Device for Carrying Out Same
Patent No. 5552270
NUMBER OF SEQUENCES: 47
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ladas & Parry
STREET: 26 West 61st Street
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10023
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM PC/XT/AT or compatibles
OPERATING SYSTEM: DOS
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/949,541A
FILING DATE: 09-Mar-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/RU92/00052
FILING DATE: 18-Mar-1992
APPLICATION NUMBER: Russian Federation 4919321
FILING DATE: 18-Mar-1991
ATTORNEY/AGENT INFORMATION:
NAME: Janet I. Cord
REGISTRATION NUMBER: 33,778
REFERENCE/DOCKET NUMBER: U-8999
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 708-1800
TELEFAX: (212) 246-8959
TELEX: 233288
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: Linear
MOLECULE TYPE: chemically synthesized
FEATURE: oligonucleotide was synthesized by phosphoramidite
FEATURE: method
OTHER INFORMATION: letter M means the tethering to the

OTHER INFORMATION: support via oxidized 3-methyluridine.
US-07-949-541A-9

Query Match 100.0%; Score 6; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.2e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
Db 2 GTCGTT 7

RESULT 13
US-07-949-541A-14
Sequence 14, Application US/07949541A
Patent No. 5552270
GENERAL INFORMATION:
APPLICANT: Khrapko, Konstantin R.
APPLICANT: Khorlin, Alexander A.
APPLICANT: Ivanov, Igor B.
APPLICANT: Ershov, Gennady M.
APPLICANT: Lysov, Yuri P.
APPLICANT: Florentiev, Vladimir L.
APPLICANT: Mirzabekov, Andrei D.
TITLE OF INVENTION: Method for Determining a DNA Nucleotide
TITLE OF INVENTION: Sequence and a Device for Carrying Out Same
Patent No. 5552270
NUMBER OF SEQUENCES: 47
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ladas & Parry
STREET: 26 West 61st Street
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10023
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb storage
COMPUTER: IBM PC/XT/AT or compatibles
OPERATING SYSTEM: DOS
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/949,541A
FILING DATE: 09-Mar-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/RU92/00052
FILING DATE: 18-Mar-1992
APPLICATION NUMBER: Russian Federation 4919321
FILING DATE: 18-Mar-1991
ATTORNEY/AGENT INFORMATION:
NAME: Janet I. Cord
REGISTRATION NUMBER: 33,778
REFERENCE/DOCKET NUMBER: U-8999
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 708-1800
TELEFAX: (212) 246-8959
TELEX: 233288
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 8 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: Linear
MOLECULE TYPE: chemically synthesized
FEATURE: oligonucleotide was synthesized by phosphoramidite
FEATURE: method
OTHER INFORMATION: letter M means the tethering to the
OTHER INFORMATION: support via oxidized 3-methyluridine.
US-07-949-541A-14
Query Match 100.0%; Score 6; DB 2; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.2e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
| | | | |
Db 3 GTCGTT 8

RESULT 14
US-09-527-234A-2
; Sequence 2, Application US/09527234A
; Patent No. 6284467
; GENERAL INFORMATION:
; APPLICANT: KAJIYAMA, Tomoharu,
; APPLICANT: MIYAHARA, Yuji,
; APPLICANT: MURAKAWA, Katsuji
; TITLE OF INVENTION: Advanced Thermal Gradient DNA Chip (ATGC), the Substrate for ATGC
; TITLE OF INVENTION: for Manufacturing for ATGC, Method and Apparatus for Biochemical
; FILE REFERENCE: HIRA.0006;PH-882US
; CURRENT APPLICATION NUMBER: US/09/527,234A
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: JP-356433/1999
; NUMBER OF SEQ ID NOS: 7
; SEQ ID NO 2
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DNA probe hybridizing with DNA fragment
US-09-527-234A-2

Query Match 100.0%; Score 6; DB 3; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.2e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
| | | | |
Db 3 GTCGTT 8

RESULT 15
US-09-527-234A-2
; Sequence 2, Application US/09527234A
; GENERAL INFORMATION:
; APPLICANT: KAJIYAMA, Tomoharu,
; APPLICANT: KAJIYAMA, Yuji,
; APPLICANT: MIYAHARA, Katsuji
; TITLE OF INVENTION: Advanced Thermal Gradient DNA Chip (ATGC), the Substrate for ATGC
; TITLE OF INVENTION: for Manufacturing for ATGC, Method and Apparatus for Biochemical
; FILE REFERENCE: HIRA.0006;PH-882US
; CURRENT APPLICATION NUMBER: US/09/527,234A
; PRIOR FILING DATE: 2001-03-16
; PRIOR APPLICATION NUMBER: JP-356433/1999
; PRIOR FILING DATE: 1999-12-15
; NUMBER OF SEQ ID NOS: 7
; SEQ ID NO 2
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DNA probe hybridizing with DNA fragment
US-09-527-234A-2

Query Match 100.0%; Score 6; DB 3; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.2e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
| | | | |
Db 3 GTCGTT 8

RESULT 16
US-09-527-233B-2
; Sequence 2, Application US/09527233B
; Patent No. 6428749
; GENERAL INFORMATION:
; APPLICANT: KAJIYAMA, Tomoharu,
; APPLICANT: MIYAHARA, Yuji,
; APPLICANT: MURAKAWA, Katsuji
; TITLE OF INVENTION: Advanced Thermal Gradient DNA Chip (ATGC), the Substrate
; TITLE OF INVENTION: for ATGC, Method for Manufacturing for ATGC, Method and Apparatu
; FILE REFERENCE: PH-790US
; CURRENT APPLICATION NUMBER: US/09/527,233B
; PRIOR FILING DATE: 2000-03-16
; PRIOR APPLICATION NUMBER: JP-356433/1999
; NUMBER OF SEQ ID NOS: 7
; SEQ ID NO 2
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DNA probe hybridizing with DNA fragment
US-09-527-233B-2

Query Match 100.0%; Score 6; DB 3; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.2e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
| | | | |
Db 3 GTCGTT 8

RESULT 17
US-09-527-440-2
; Sequence 2, Application US/09527440
; Patent No. 6892141
; GENERAL INFORMATION:
; APPLICANT: KAJIYAMA, Tomoharu,
; APPLICANT: KAJIYAMA, Yuji,
; APPLICANT: MIYAHARA, Katsuji
; TITLE OF INVENTION: Advanced Thermal Gradient DNA Chip (ATGC), the Substrate
; TITLE OF INVENTION: for ATGC, Method for Manufacturing for ATGC, Method and Apparatus
; FILE REFERENCE:
; CURRENT APPLICATION NUMBER: US/09/527,440
; PRIOR FILING DATE: 2000-03-17
; PRIOR APPLICATION NUMBER: JP-356433/1999
; EARLIER FILING DATE: 1999-12-15
; NUMBER OF SEQ ID NOS: 7
; SEQ ID NO 2
; LENGTH: 8
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DNA probe hybridizing with DNA fragment
US-09-527-440-2

Query Match 100.0%; Score 6; DB 3; Length 8;
Best Local Similarity 100.0%; Pred. No. 2.2e+08;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
| | | | |
Db 3 GTCGTT 8

RESULT 18
US-09-154-750A-39/C
; Sequence 39, Application US/09154750A
; Patent No. 6432640
; GENERAL INFORMATION:

APPLICANT: Vogelstein, Bert
APPLICANT: Kinzler, Kenneth
APPLICANT: Polyak, Kornelia
TITLE OF INVENTION: p53-Induced Apoptosis
FILE REFERENCE: 1107,75357
CURRENT APPLICATION NUMBER: US/09/154,750A
CURRENT FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/059,153
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/079817
PRIOR FILING DATE: 1998-03-30
NUMBER OF SEQ ID NOS: 93
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 39
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-09-154-750A-39

Query Match 100.0%; Score 6; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
|||||
Db 6 GTCGTT 1

RESULT 19
US-09-508-753B-422/c
Sequence 422, Application US/09508753B
Patent No. 6544736
GENERAL INFORMATION:
APPLICANT: Akira SHIMAMOTO
APPLICANT: Yasuhiro FURUCHI
APPLICANT: Yuko SHIBATA
APPLICANT: Hiroko FUNAKI
APPLICANT: Eiji OHARA
APPLICANT: Masanori WATAHIKI
TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
FILE REFERENCE: 00162/HG
CURRENT APPLICATION NUMBER: US/09/508,753B
CURRENT FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: JP 9/270324
PRIOR FILING DATE: 1997-09-18
NUMBER OF SEQ ID NOS: 472
SEQ ID NO 422
LENGTH: 10
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-422

Query Match 100.0%; Score 6; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
|||||
Db 10 GTCGTT 5

RESULT 20
US-09-508-753B-430
Sequence 430, Application US/09508753B
Patent No. 6544736
GENERAL INFORMATION:
APPLICANT: Akira SHIMAMOTO
APPLICANT: Yasuhiro FURUCHI
APPLICANT: Yuko SHIBATA
APPLICANT: Hiroko FUNAKI
APPLICANT: Eiji OHARA

APPLICANT: Masanori WATAHIKI
TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
FILE REFERENCE: 00162/HG
CURRENT APPLICATION NUMBER: US/09/508,753B
CURRENT FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: JP 9/270324
PRIOR FILING DATE: 1997-09-18
NUMBER OF SEQ ID NOS: 472
SEQ ID NO 430
LENGTH: 10
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-430

Query Match 100.0%; Score 6; DB 3; Length 10;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
|||||
Db 3 GTCGTT 8

RESULT 21
US-08-053-131-8/c
Sequence 8, Application US/08053131
Patent No. 5661016
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5661016-Human Animals for
TITLE OF INVENTION: Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 197
CORRESPONDENCE ADDRESS:
ADDRESSES: Townsend and Townsend Kourie and Crew
STREET: One Market Plaza, Steuart Tower, Suite 200
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/053,131
FILING DATE: 26-APR-1993
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/990,860
FILING DATE: 16-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/810,279
FILING DATE: 17-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/853,408
FILING DATE: 18-MAR-1992
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9-3
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: RNA
US-08-053-131-8

Query Match
Best Local Similarity 100.0%; Score 6; DB 2; Length 12;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
DB 6 GTCGTT 1

RESULT 22
US-08-645-641-8/C
Sequence 8, Application US/08645641
Patent No. 5719032
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
TITLE OF INVENTION: Transgenic No. 5719032-Human Animals for
Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: Two Embarcadero Center, 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/645,641
FILING DATE: 20-MAY-1996
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-JUN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-000913
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA
US-08-645-641-8

Query Match
Best Local Similarity 100.0%; Score 6; DB 2; Length 12;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
DB 6 GTCGTT 1

RESULT 23
US-07-853-408B-8/C
Sequence 8, Application US/07853408B
Patent No. 5789650
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.

TITLE OF INVENTION: Transgenic No. 5789650-Human Animals for
Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/07/853,408B
FILING DATE: 19920318
CLASSIFICATION: 800
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: NUCLEIC ACID
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA
US-07-853-408B-8

Query Match
Best Local Similarity 100.0%; Score 6; DB 2; Length 12;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
DB 6 GTCGTT 1

RESULT 24
US-08-096-762-8/C
Sequence 8, Application US/08096762
Patent No. 5814318
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5814318-Human Animals for
Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 210
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: One Market Plaza, Steuart Tower, Suite 200
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent in Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/096,762
FILING DATE: 22-JUL-1993
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/053,131
FILING DATE: 26-APR-1993

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/990,860
FILING DATE: 16-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/853,408
FILING DATE: 18-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/810,279
FILING DATE: 17-DEC-1991
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9-4
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA
US-08-096-762-8

Query Match 100.0%; Score 6; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
Db 6 GTCGTT 1

RESULT 25
US-08-308-865-8/c
Sequence 8, Application US/08308865
Patent No. 5877397
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 5877397-Human Animals for
Producing Heterologous Antibodies
NUMBER OF SEQUENCES: 150
CORRESPONDENCE ADDRESS:
ADDRESSEE: William M. Smith
STREET: One Market Plaza, Steuart Tower, Suite 2000
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94105
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patent Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/308,865
FILING DATE:
CLASSIFICATION: 800
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/145,707
FILING DATE:
APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-JUN-1992
ATTORNEY/AGENT INFORMATION:
NAME: Smith, William M.
REGISTRATION NUMBER: 30,223
REFERENCE/DOCKET NUMBER: 14643-9-1-1
TELECOMMUNICATION INFORMATION:

TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA
US-08-308-865-8

Query Match 100.0%; Score 6; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGTT 6
Db 6 GTCGTT 1

RESULT 26
US-08-613-965-6/c
Sequence 6, Application US/08613965
Patent No. 5916745
GENERAL INFORMATION:
APPLICANT: Robert M. Cook and Ahmed Raafat
TITLE OF INVENTION: Method for Determination
of Bovine Milk Production Potential
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ian C. McLeod
STREET: 2190 Commons Parkway
CITY: Okemos
STATE: Michigan
COUNTRY: USA
ZIP: 48864
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb
MEDIUM TYPE: Storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/613,965
FILING DATE:
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Ian C. McLeod
REGISTRATION NUMBER: 20,931
REFERENCE/DOCKET NUMBER: MSU 4.1-290
TELECOMMUNICATION INFORMATION:
TELEPHONE: (517) 347-4100
TELEFAX: (517) 347-4103
TELEX: No. 5916745e
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 12
TYPE: nucleotides
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE:
DESCRIPTION: synthetic DNA
HYPOTHETICAL: No
ANTI-SENSE: No
ORIGINAL SOURCE:
ORGANISM:
STRAIN:
INDIVIDUAL ISOLATE:
CELL TYPE:
FEATURE:

NAME/KEY: EcORI adaptor
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION:
US-08-613-965-6

Query Match 100.0%; Score 6; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGT 6
|||||
Db 9 GTCGT 4

RESULT 27
US-08-918-966-6/c
Sequence 6, Application US/08918966
Patent No. 5981187
GENERAL INFORMATION:
APPLICANT: Robert M. Cook and Ahmed Raafat
TITLE OF INVENTION: Method For Determination
TITLE OF INVENTION: of Bovine Milk Production Potential
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ian C. McLeod
STREET: 2190 Commons Parkway
CITY: Okemos
STATE: Michigan
COUNTRY: USA
ZIP: 48864
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/918,966
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Ian C. McLeod
REGISTRATION NUMBER: 20,931
REFERENCE/DOCKET NUMBER: MSU 4.1-290
TELECOMMUNICATION INFORMATION:
TELEPHONE: (517) 347-4100
TELEFAX: (517) 347-4103
TELEX: No. 5981187e
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 12
TYPE: nucleotides
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE:
DESCRIPTION: synthetic DNA
HYPOTHETICAL: No
ANTI-SENSE: No
ORIGINAL SOURCE:
ORGANISM:
STRAIN:
INDIVIDUAL ISOLATE:
CELL TYPE:
FEATURE:
NAME/KEY: EcORI adaptor
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION:
US-08-918-966-6

Query Match 100.0%; Score 6; DB 2; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GTCGT 6
|||||
Db 9 GTCGT 4

RESULT 28
US-08-921-655-6/c
Sequence 6, Application US/08921655
Patent No. 6013496
GENERAL INFORMATION:
APPLICANT: Robert M. Cook and Ahmed Raafat
TITLE OF INVENTION: Method For Determination
TITLE OF INVENTION: of Bovine Milk Production Potential
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Ian C. McLeod
STREET: 2190 Commons Parkway
CITY: Okemos
STATE: Michigan
COUNTRY: USA
ZIP: 48864
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 5.25 inch, 360 Kb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: MS-DOS
SOFTWARE: Wordperfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/921,655
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Ian C. McLeod
REGISTRATION NUMBER: 20,931
REFERENCE/DOCKET NUMBER: MSU 4.1-290
TELECOMMUNICATION INFORMATION:
TELEPHONE: (517) 347-4100
TELEFAX: (517) 347-4103
TELEX: No. 6013496e
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 12
TYPE: nucleotides
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE:
DESCRIPTION: synthetic DNA
HYPOTHETICAL: No
ANTI-SENSE: No
ORIGINAL SOURCE:
ORGANISM:
STRAIN:
INDIVIDUAL ISOLATE:
CELL TYPE:
FEATURE:
NAME/KEY: EcORI adaptor
LOCATION:
IDENTIFICATION METHOD:
OTHER INFORMATION:
US-08-921-655-6
Query Match 100.0%; Score 6; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTCGTT 6
Db 9 GTCGTT 4

RESULT 29
US-09-042-353-160/C
Sequence 160, Application US/09042353
Patent No. 6255458
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 6255458-Human Animals for
NUMBER OF SEQUENCES: 421
CORRESPONDENCE ADDRESSES:
ADDRESSES: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Center, Eighth Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.30

CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/042,353
FILING DATE: 13-MAR-1998
CLASSIFICATION: 800

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/810,279
FILING DATE: 17-DEC-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/853,408
FILING DATE: 18-MAR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/904,068
FILING DATE: 23-JUN-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/990,860
FILING DATE: 16-DEC-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/053,131
FILING DATE: 26-APR-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/096,762
FILING DATE: 22-JUL-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/155,301
FILING DATE: 18-NOV-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/161,739
FILING DATE: 03-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/165,699
FILING DATE: 10-DEC-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/209,741
FILING DATE: 09-MAR-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/352,322
FILING DATE: 07-DEC-1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/544,404
FILING DATE: 10-OCT-1995
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/128,463
FILING DATE: 10-OCT-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US96/16433
FILING DATE: 10-OCT-1996

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/758,417
FILING DATE: 02-DEC-1996
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US97/21803
FILING DATE: 01-DEC-1997
ATTORNEY/AGENT INFORMATION:
NAME: Apple, Randolph T.
REGISTRATION NUMBER: 36,429
REFERENCE/DOCKET NUMBER: 014643-009040US
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 576-0200
TELEFAX: (415) 576-0300
INFORMATION FOR SEQ ID NO: 160:
SEQUENCE CHARACTERISTICS:
LENGTH: 12 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: RNA
US-09-042-353-160

Query Match 100.0%; Score 6; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTCGTT 6
Db 6 GTCGTT 1

RESULT 30
US-09-281-418-31
Sequence 31, Application US/09281418
Patent No. 6287769
GENERAL INFORMATION:
APPLICANT: Inoue, Takakazu
TITLE OF INVENTION: Method of Amplifying DNA Fragment, Apparatus for Amplifying DNA
TITLE OF INVENTION: agment, Method of Assaying Microorganisms, Method of Analyzing M
FILE REFERENCE: 9982-7
CURRENT APPLICATION NUMBER: US/09/281,418
CURRENT FILING DATE: 1999-03-30
EARLIER APPLICATION NUMBER: JP/1998/87651
EARLIER FILING DATE: 1998-03-31
EARLIER APPLICATION NUMBER: JP/1999/69694
EARLIER FILING DATE: 1999-03-16
NUMBER OF SEQ ID NOS: 216
SEQ ID NO 31
LENGTH: 12
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Primer
US-09-281-418-31

Query Match 100.0%; Score 6; DB 3; Length 12;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GTCGTT 6
Db 3 GTCGTT 8

RESULT 31
US-08-758-417A-8/C
Sequence 8, Application US/08758417A
Patent No. 6300129
GENERAL INFORMATION:
APPLICANT: Lonberg, Nils
APPLICANT: Kay, Robert M.
TITLE OF INVENTION: Transgenic No. 6300129-Human Animals for


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RESULT 34
US-09-030-701-56
; Sequence 56, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-56

Query Match      100.0%; Score 6; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GTCGTT 6
      |||||
Db      2 GTCGTT 7

RESULT 35
US-09-286-098-98
; Sequence 98, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 98
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-98

Query Match      100.0%; Score 6; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GTCGTT 6
      |||||
Db      2 GTCGTT 7

RESULT 36
US-08-960-774-85
; Sequence 85, Application US/08960774
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; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 85:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 13 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: CDNA
US-08-960-774-85

Query Match      100.0%; Score 6; DB 3; Length 13;
Best Local Similarity 100.0%; Pred. No. 1.6e+05;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GTCGTT 6
      |||||
Db      2 GTCGTT 7

RESULT 37
US-09-325-193A-84
; Sequence 84, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated Cpg Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 84
; LENGTH: 13
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; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-84

Query Match
Best Local Similarity 100.0%; Score 6; DB 3; Length 13;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
   |||||
Db 2 GTCGTT 7

RESULT 38
US-09-191-170-92
; Sequence 92, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; EARLIER FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FaastSeq for Windows Version 3.0
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-92

Query Match
Best Local Similarity 100.0%; Score 6; DB 3; Length 13;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
   |||||
Db 2 GTCGTT 7

RESULT 39
US-08-862-629B-6
; Sequence 6, Application US/08862629B
; Patent No. 6617422
; GENERAL INFORMATION:
; APPLICANT: Nielsen, Peter E
; APPLICANT: Haalima, Gerald
; APPLICANT: Eldrup, Anne B
; TITLE OF INVENTION: Peptide Nucleic Acid Monomers and Oligomers
; FILE REFERENCE: IS152418
; CURRENT APPLICATION NUMBER: US/08/862,629B
; CURRENT FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 6
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

; OTHER INFORMATION: Description of Artificial Sequence: No. 6617422el Sequence
; NAME/KEY: misc_feature
; LOCATION: (10)..(11)
; OTHER INFORMATION: Bases 10 and 11 are linked via three consecutive
; OTHER INFORMATION: 8-amino-3, 6-dioxoactanoic acid groups (eg1)
US-08-862-629B-6

Query Match
Best Local Similarity 100.0%; Score 6; DB 3; Length 13;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
   |||||
Db 4 GTCGTT 9

RESULT 40
US-08-862-629B-7
; Sequence 7, Application US/08862629B
; Patent No. 6617422
; GENERAL INFORMATION:
; APPLICANT: Nielsen, Peter E
; APPLICANT: Haalima, Gerald
; APPLICANT: Eldrup, Anne B
; TITLE OF INVENTION: Peptide Nucleic Acid Monomers and Oligomers
; FILE REFERENCE: IS152418
; CURRENT APPLICATION NUMBER: US/08/862,629B
; CURRENT FILING DATE: 1997-05-23
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 13
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: No. 6617422el Sequence
; NAME/KEY: misc_feature
; LOCATION: (10)..(11)
; OTHER INFORMATION: Bases 10 and 11 are linked via three consecutive
; OTHER INFORMATION: 8-amino-3, 6-dioxoactanoic acid groups (eg1)
US-08-862-629B-7

Query Match
Best Local Similarity 100.0%; Score 6; DB 3; Length 13;
Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GTCGTT 6
   |||||
Db 4 GTCGTT 9

Search completed: March 8, 2006, 01:51:59
Job time : 27.9434 secs
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GenCore version 5.1.7
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OM nucleic - nucleic search, using gw model

Run on: March 8, 2006, 20:06:26 ; Search time 308.113 Seconds
(without alignments)
149.769 Million cell updates/sec

Title: US-09-337-584-38
Perfect score: 20
Sequence: 1 tccatgcgcctcccgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7673375 seqs, 1153648444 residues

Total number of hits satisfying chosen parameters: 15346750

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Published Applications NA.New.*
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2: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq.*
4: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
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6: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq.*
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8: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq.*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
10: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
11: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
12: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq.*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	20	100.0	20 7 US-10-533-634-30	Sequence 30, Appl
2	20	100.0	20 8 US-10-619-279-38	Sequence 38, Appl
3	20	100.0	20 8 US-10-435-656-43	Sequence 43, Appl
4	20	100.0	20 8 US-10-435-656-53	Sequence 53, Appl
5	20	100.0	20 12 US-11-127-654-8	Sequence 8, Appl
6	20	100.0	20 12 US-11-127-654-129	Sequence 129, Appl
7	20	100.0	20 12 US-11-127-654-732	Sequence 732, Appl
8	20	100.0	20 12 US-11-134-918-43	Sequence 43, Appl
9	20	100.0	20 12 US-11-134-918-53	Sequence 53, Appl
10	20	100.0	20 12 US-11-031-460-53	Sequence 53, Appl
11	20	100.0	20 12 US-11-031-460-53	Sequence 53, Appl
12	20	100.0	20 12 US-11-019-955-2	Sequence 2, Appl
13	20	100.0	20 12 US-11-067-587-43	Sequence 43, Appl
14	20	100.0	20 12 US-11-067-587-53	Sequence 53, Appl
15	20	100.0	20 12 US-11-067-587-101	Sequence 101, Appl
16	20	100.0	20 12 US-11-099-683-102	Sequence 102, Appl
17	20	100.0	20 12 US-11-099-683-103	Sequence 103, Appl
18	20	100.0	20 12 US-11-127-654-306	Sequence 306, Appl
19	20	95.0	20 8 US-10-497-591A-73	Sequence 73, Appl
20	20	95.0	20 8 US-10-619-279-44	Sequence 44, Appl

21	19	95.0	20 12 US-11-127-654-185	Sequence 185, Appl
22	19	95.0	20 12 US-11-099-683-105	Sequence 105, Appl
23	18.4	92.0	20 7 US-10-533-634-29	Sequence 29, Appl
24	18.4	92.0	20 8 US-10-497-591A-12	Sequence 12, Appl
25	18.4	92.0	20 8 US-10-469-561-9	Sequence 9, Appl
26	18.4	92.0	20 8 US-10-619-279-7	Sequence 7, Appl
27	18.4	92.0	20 8 US-10-619-279-28	Sequence 28, Appl
28	18.4	92.0	20 8 US-10-619-279-36	Sequence 36, Appl
29	18.4	92.0	20 8 US-10-619-279-37	Sequence 37, Appl
30	18.4	92.0	20 8 US-10-435-656-7	Sequence 7, Appl
31	18.4	92.0	20 8 US-10-435-656-31	Sequence 31, Appl
32	18.4	92.0	20 8 US-10-435-656-33	Sequence 33, Appl
33	18.4	92.0	20 8 US-10-435-656-34	Sequence 34, Appl
34	18.4	92.0	20 8 US-10-435-656-35	Sequence 35, Appl
35	18.4	92.0	20 8 US-10-435-656-37	Sequence 37, Appl
36	18.4	92.0	20 8 US-10-435-656-41	Sequence 41, Appl
37	18.4	92.0	20 8 US-10-435-656-42	Sequence 42, Appl
38	18.4	92.0	20 8 US-10-435-656-44	Sequence 44, Appl
39	18.4	92.0	20 8 US-10-435-656-54	Sequence 54, Appl
40	18.4	92.0	20 10 US-11-127-797-21	Sequence 21, Appl
41	18.4	92.0	20 10 US-11-127-797-25	Sequence 25, Appl
42	18.4	92.0	20 10 US-11-127-803-21	Sequence 21, Appl
43	18.4	92.0	20 10 US-11-127-803-25	Sequence 25, Appl
44	18.4	92.0	20 10 US-11-128-127-21	Sequence 21, Appl
45	18.4	92.0	20 10 US-11-128-127-25	Sequence 25, Appl
46	18.4	92.0	20 12 US-11-025-858-2	Sequence 2, Appl
47	18.4	92.0	20 12 US-11-025-858-6	Sequence 6, Appl
48	18.4	92.0	20 12 US-11-127-654-10	Sequence 10, Appl
49	18.4	92.0	20 12 US-11-127-654-11	Sequence 11, Appl
50	18.4	92.0	20 12 US-11-127-654-281	Sequence 281, Appl
51	18.4	92.0	20 12 US-11-127-654-377	Sequence 377, Appl
52	18.4	92.0	20 12 US-11-127-654-383	Sequence 383, Appl
53	18.4	92.0	20 12 US-11-127-654-444	Sequence 444, Appl
54	18.4	92.0	20 12 US-11-127-654-550	Sequence 550, Appl
55	18.4	92.0	20 12 US-11-127-654-731	Sequence 731, Appl
56	18.4	92.0	20 12 US-11-127-654-735	Sequence 735, Appl
57	18.4	92.0	20 12 US-11-127-654-736	Sequence 736, Appl
58	18.4	92.0	20 12 US-11-127-654-747	Sequence 747, Appl
59	18.4	92.0	20 12 US-11-127-654-779	Sequence 779, Appl
60	18.4	92.0	20 12 US-11-127-654-836	Sequence 836, Appl
61	18.4	92.0	20 12 US-11-134-918-7	Sequence 7, Appl
62	18.4	92.0	20 12 US-11-134-918-31	Sequence 31, Appl
63	18.4	92.0	20 12 US-11-134-918-33	Sequence 33, Appl
64	18.4	92.0	20 12 US-11-134-918-34	Sequence 34, Appl
65	18.4	92.0	20 12 US-11-134-918-35	Sequence 35, Appl
66	18.4	92.0	20 12 US-11-134-918-37	Sequence 37, Appl
67	18.4	92.0	20 12 US-11-134-918-41	Sequence 41, Appl
68	18.4	92.0	20 12 US-11-134-918-42	Sequence 42, Appl
69	18.4	92.0	20 12 US-11-134-918-44	Sequence 44, Appl
70	18.4	92.0	20 12 US-11-134-918-54	Sequence 54, Appl
71	18.4	92.0	20 12 US-11-031-460-7	Sequence 7, Appl
72	18.4	92.0	20 12 US-11-031-460-31	Sequence 31, Appl
73	18.4	92.0	20 12 US-11-031-460-33	Sequence 33, Appl
74	18.4	92.0	20 12 US-11-031-460-34	Sequence 34, Appl
75	18.4	92.0	20 12 US-11-031-460-35	Sequence 35, Appl
76	18.4	92.0	20 12 US-11-031-460-37	Sequence 37, Appl
77	18.4	92.0	20 12 US-11-031-460-41	Sequence 41, Appl
78	18.4	92.0	20 12 US-11-031-460-42	Sequence 42, Appl
79	18.4	92.0	20 12 US-11-031-460-44	Sequence 44, Appl
80	18.4	92.0	20 12 US-11-031-460-54	Sequence 54, Appl
81	18.4	92.0	20 12 US-11-067-587-7	Sequence 7, Appl
82	18.4	92.0	20 12 US-11-067-587-31	Sequence 31, Appl
83	18.4	92.0	20 12 US-11-067-587-33	Sequence 33, Appl
84	18.4	92.0	20 12 US-11-067-587-34	Sequence 34, Appl
85	18.4	92.0	20 12 US-11-067-587-35	Sequence 35, Appl
86	18.4	92.0	20 12 US-11-067-587-37	Sequence 37, Appl
87	18.4	92.0	20 12 US-11-067-587-41	Sequence 41, Appl
88	18.4	92.0	20 12 US-11-067-587-42	Sequence 42, Appl
89	18.4	92.0	20 12 US-11-067-587-44	Sequence 44, Appl
90	18.4	92.0	20 12 US-11-067-587-54	Sequence 54, Appl
91	18.4	92.0	20 12 US-11-099-683-75	Sequence 75, Appl
92	18.4	92.0	20 12 US-11-099-683-76	Sequence 76, Appl
93	18.4	92.0	20 12 US-11-099-683-77	Sequence 77, Appl

94	18.4	92.0	20	12	US-11-099-683-78	Sequence 78, Appl
95	18.4	92.0	20	12	US-11-099-683-79	Sequence 79, Appl
96	18.4	92.0	20	12	US-11-099-683-80	Sequence 80, Appl
97	18.4	92.0	20	12	US-11-099-683-81	Sequence 81, Appl
98	18.4	92.0	20	12	US-11-099-683-91	Sequence 91, Appl
99	18.4	92.0	20	12	US-11-099-683-92	Sequence 92, Appl
100	18.4	92.0	20	12	US-11-099-683-93	Sequence 93, Appl

ALIGNMENTS

RESULT 1

```
US-10-533-634-30
; Sequence 30, Application US/10533634
; Publication No. US20060019239A1
; GENERAL INFORMATION:
; APPLICANT: THE UNITED STATES OF AMERICA AS REPRESENTED BY THE
; APPLICANT: SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES
; APPLICANT: Kliman, Dennis M.
; APPLICANT: Ivins, Bruce
; APPLICANT: Verthelyi, Daniela
; TITLE OF INVENTION: METHOD OF PREVENTING INFECTIONS FROM BIOTERRORISM AGENTS WITH
; FILE REFERENCE: 4239-67021-06
; CURRENT APPLICATION NUMBER: US/10/533,634
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: PCT/US2003/034523
; PRIOR FILING DATE: 2003-10-31
; PRIOR APPLICATION NUMBER: US 60/422,964
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: Patencin version 3.2
; SEQ ID NO 30
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: K oligonucleotide
US-10-533-634-30
```

Query Match 100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGTCGTTCTGATGCT 20
|||
DB 1 TCATGTCGTTCTGATGCT 20

RESULT 2

```
US-10-619-279-38
; Sequence 38, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
```

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-38

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGTCGTTCTGATGCT 20
|||
DB 1 TCATGTCGTTCTGATGCT 20

RESULT 3

```
US-10-435-656-43
; Sequence 43, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-43
```

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGTCGTTCTGATGCT 20
|||
DB 1 TCATGTCGTTCTGATGCT 20

RESULT 4

```
US-10-435-656-53
; Sequence 53, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
```



```

; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-10-435-656-53

```

```

Query Match      100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 TCCATGTCGTTCTCGATGCT 20
        |||
Db      1 TCCATGTCGTTCTCGATGCT 20

```

```

RESULT 5
US-11-127-654-8
; Sequence 8, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 8
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-11-127-654-8

```

```

Query Match      100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 TCCATGTCGTTCTCGATGCT 20
        |||
Db      1 TCCATGTCGTTCTCGATGCT 20

```

```

RESULT 6
US-11-127-654-129/c
; Sequence 129, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653

```

```

; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 129
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-129

```

```

Query Match      100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 TCCATGTCGTTCTCGATGCT 20
        |||
Db      20 TCCATGTCGTTCTCGATGCT 1

```

```

RESULT 7
US-11-127-654-732
; Sequence 732, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 732
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-732

```

```

Query Match      100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1 TCCATGTCGTTCTCGATGCT 20
        |||
Db      1 TCCATGTCGTTCTCGATGCT 20

```

```

RESULT 8
US-11-134-918-43
; Sequence 43, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; PRIOR FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358

```

```

; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-43
```

```

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGTCGTTCTGATGCT 20
          |||||
Db      1  TCCATGTCGTTCTGATGCT 20
```

```

RESULT 9
US-11-134-918-53
; Sequence 53, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; PRIOR FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-11-134-918-53
```

```

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGTCGTTCTGATGCT 20
          |||||
Db      1  TCCATGTCGTTCTGATGCT 20
```

```

RESULT 10
US-11-031-460-43
; Sequence 43, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; PRIOR FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-43
```

```

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGTCGTTCTGATGCT 20
          |||||
Db      1  TCCATGTCGTTCTGATGCT 20
```

```

RESULT 11
US-11-031-460-53
; Sequence 53, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; PRIOR FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-11-031-460-53
```

```

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.49;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

OY 1 TCCATGTCGTCCTGATGCT 20
 Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 12
 US-11-019-955-2
 ; Sequence 2, Application US/11019955
 ; Publication No. US20050282763A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Hedley, Mary Lynne
 ; TITLE OF INVENTION: METHODS OF TREATING BLADDER DISORDERS
 ; FILE REFERENCE: 08191-022001
 ; CURRENT APPLICATION NUMBER: US/11/019,955
 ; CURRENT FILING DATE: 2004-12-22
 ; PRIOR APPLICATION NUMBER: US/10/074,956
 ; PRIOR FILING DATE: 2002-02-12
 ; PRIOR APPLICATION NUMBER: 60/268,175
 ; PRIOR FILING DATE: 2001-02-12
 ; NUMBER OF SEQ ID NOS: 29
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 2
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-11-019-955-2

Query Match 100.0%; Score 20; DB 12; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.49;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGTCGTCCTGATGCT 20
 Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 13
 US-11-067-587-43
 ; Sequence 43, Application US/11067587
 ; Publication No. US20060003955A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kries, Arthur M.
 ; APPLICANT: Kline, Joel N.
 ; APPLICANT: Kline, Dennis
 ; APPLICANT: Steinberg, Alfred D.
 ; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
 ; FILE REFERENCE: C1039/7048 (AMS)
 ; CURRENT APPLICATION NUMBER: US/11/067,587
 ; CURRENT FILING DATE: 2005-02-25
 ; PRIOR APPLICATION NUMBER: US/09/818,918
 ; PRIOR FILING DATE: 2001-03-27
 ; PRIOR APPLICATION NUMBER: US 08/276,358
 ; PRIOR FILING DATE: 1994-07-15
 ; PRIOR APPLICATION NUMBER: US 08/386,063
 ; PRIOR FILING DATE: 1995-02-07
 ; PRIOR APPLICATION NUMBER: US 08/738,652
 ; PRIOR FILING DATE: 1996-10-30
 ; NUMBER OF SEQ ID NOS: 56
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 43
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic oligonucleotide
 US-11-067-587-43

Query Match 100.0%; Score 20; DB 12; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.49;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 TCCATGTCGTCCTGATGCT 20

Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 14
 US-11-067-587-53
 ; Sequence 53, Application US/11067587
 ; Publication No. US20060003955A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kries, Arthur M.
 ; APPLICANT: Kline, Joel N.
 ; APPLICANT: Kline, Dennis
 ; APPLICANT: Steinberg, Alfred D.
 ; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
 ; FILE REFERENCE: C1039/7048 (AMS)
 ; CURRENT APPLICATION NUMBER: US/11/067,587
 ; CURRENT FILING DATE: 2005-02-25
 ; PRIOR APPLICATION NUMBER: US/09/818,918
 ; PRIOR FILING DATE: 2001-03-27
 ; PRIOR APPLICATION NUMBER: US 08/276,358
 ; PRIOR FILING DATE: 1994-07-15
 ; PRIOR APPLICATION NUMBER: US 08/386,063
 ; PRIOR FILING DATE: 1995-02-07
 ; PRIOR APPLICATION NUMBER: US 08/738,652
 ; PRIOR FILING DATE: 1996-10-30
 ; NUMBER OF SEQ ID NOS: 56
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 53
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic oligonucleotide
 ; NAME/KEY: modified base
 ; LOCATION: (8)...(8)
 ; OTHER INFORMATION: m5C
 US-11-067-587-53

Query Match 100.0%; Score 20; DB 12; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.49;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGTCGTCCTGATGCT 20
 Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 15
 US-11-099-683-101
 ; Sequence 101, Application US/11099683
 ; Publication No. US20060019916A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kries, Arthur
 ; APPLICANT: Volmer, Jörg
 ; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
 ; FILE REFERENCE: C1037.700470501
 ; CURRENT APPLICATION NUMBER: US/11/099,683
 ; CURRENT FILING DATE: 2005-04-04
 ; PRIOR APPLICATION NUMBER: US 60/558,951
 ; PRIOR FILING DATE: 2004-04-02
 ; NUMBER OF SEQ ID NOS: 143
 ; SOFTWARE: PatentIn version 3.3
 ; SEQ ID NO 101
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic oligonucleotide
 US-11-099-683-101

Query Match 100.0%; Score 20; DB 12; Length 20;
 Best Local Similarity 100.0%; Pred. No. 0.49;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTCATGCT 20

Db 1 TCCATGTCGTCCTCATGCT 20

RESULT 16

US-11-099-683-102

/ Sequence 102, Application US/11099683

/ Publication No. US20060019916A1

/ GENERAL INFORMATION:

/ APPLICANT: Krieger, Arthur

/ APPLICANT: Vollmer, Jorg

/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES

/ FILE REFERENCE: C1037.70047US01

/ CURRENT FILING DATE: 2005-04-04

/ PRIOR APPLICATION NUMBER: US 60/558,951

/ PRIOR FILING DATE: 2004-04-02

/ NUMBER OF SEQ ID NOS: 143

/ SOFTWARE: PatentIn version 3.3

/ SEQ ID NO 102

/ LENGTH: 20

/ TYPE: DNA

/ ORGANISM: Artificial sequence

/ FEATURE:

/ OTHER INFORMATION: Synthetic oligonucleotide

US-11-099-683-102

Query Match 100.0%; Score 20; DB 12; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.49;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTCATGCT 20

Db 1 TCCATGTCGTCCTCATGCT 20

RESULT 17

US-11-099-683-103

/ Sequence 103, Application US/11099683

/ Publication No. US20060019916A1

/ GENERAL INFORMATION:

/ APPLICANT: Krieger, Arthur

/ APPLICANT: Vollmer, Jorg

/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES

/ FILE REFERENCE: C1037.70047US01

/ CURRENT APPLICATION NUMBER: US/11/099,683

/ CURRENT FILING DATE: 2005-04-04

/ PRIOR APPLICATION NUMBER: US 60/558,951

/ PRIOR FILING DATE: 2004-04-02

/ NUMBER OF SEQ ID NOS: 143

/ SOFTWARE: PatentIn version 3.3

/ SEQ ID NO 103

/ LENGTH: 20

/ TYPE: DNA

/ ORGANISM: Artificial sequence

/ FEATURE:

/ OTHER INFORMATION: Synthetic oligonucleotide

US-11-099-683-103

Query Match 100.0%; Score 20; DB 12; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.49;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTCATGCT 20

Db 1 TCCATGTCGTCCTCATGCT 20

RESULT 18

US-11-127-654-306

/ Sequence 306, Application US/11127654

/ Publication No. US20050250726A1

/ GENERAL INFORMATION:

/ APPLICANT: Krieger, Arthur M.

/ APPLICANT: Berg, Daniel J.

/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

/ FILE REFERENCE: C1039.70060US01

/ CURRENT APPLICATION NUMBER: US/11/127,654

/ CURRENT FILING DATE: 2005-05-12

/ PRIOR APPLICATION NUMBER: US 10/112,653

/ PRIOR FILING DATE: 2002-03-29

/ PRIOR APPLICATION NUMBER: US 60/279,642

/ PRIOR FILING DATE: 2001-03-29

/ NUMBER OF SEQ ID NOS: 1040

/ SOFTWARE: PatentIn version 3.2

/ SEQ ID NO 306

/ LENGTH: 28

/ TYPE: DNA

/ ORGANISM: Artificial sequence

/ FEATURE:

/ OTHER INFORMATION: Synthetic oligonucleotide

/ NAME/KEY: misc.feature

/ LOCATION: (1)..(1)

/ OTHER INFORMATION: biotinylated

US-11-127-654-306

Query Match 100.0%; Score 20; DB 12; Length 28;

Best Local Similarity 100.0%; Pred. No. 0.52;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTCATGCT 20

Db 5 TCCATGTCGTCCTCATGCT 24

RESULT 19

US-10-497-591A-73

/ Sequence 73, Application US/10497591A

/ Publication No. US20050250716A1

/ GENERAL INFORMATION:

/ APPLICANT: SCHMIDT, WALTER

/ APPLICANT: SCHELLACK, CAROLA

/ APPLICANT: EGYED, ALBENA

/ APPLICANT: LINGNAU, KAREN

/ TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES

/ FILE REFERENCE: SONN:045US

/ CURRENT APPLICATION NUMBER: US/10/497,591A

/ CURRENT FILING DATE: 2004-06-03

/ PRIOR APPLICATION NUMBER: PCT/EP02/13791

/ PRIOR FILING DATE: 2002-12-05

/ PRIOR APPLICATION NUMBER: A 1924/2001

/ PRIOR FILING DATE: 2001-12-07

/ NUMBER OF SEQ ID NOS: 113

/ SOFTWARE: PatentIn Ver. 2.1

/ SEQ ID NO 73

/ LENGTH: 20

/ TYPE: DNA

/ ORGANISM: Artificial sequence

/ FEATURE:

/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic

/ OTHER INFORMATION: Primer

/ NAME/KEY: modified_base

/ LOCATION: (9)

/ OTHER INFORMATION: n = inosine or uracil

US-10-497-591A-73

Query Match 95.0%; Score 19; DB 8; Length 20;

Best Local Similarity 95.0%; Pred. No. 1.7;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTCATGCT 20

Db 1 TCCATGTCGTCCTCATGCT 20

OY 1 TCCATGTCGTCCTGATGCT 20
|||
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 20
US-10-619-279-44
; Sequence 44, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; PRIORITY FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: PatentIn version 3.10
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (8)...(8)
; OTHER INFORMATION: misc
US-10-619-279-44

Query Match 95.0%; Score 19; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 1.7;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 TCCATGTCGTCCTGATGCT 20
|||
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 21
US-11-127-654-185
; Sequence 185, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039, 70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 185
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-185

Query Match 95.0%; Score 19; DB 12; Length 20;

Best Local Similarity 100.0%; Pred. No. 1.7;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 TCCATGTCGTCCTGATGC 19
|||
Db 1 TCCATGTCGTCCTGATGC 19

RESULT 22
US-11-099-683-105
; Sequence 105, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037, 70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 105
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (8)..(8)
; OTHER INFORMATION: wherein n is a G or modified G nucleotide
; FEATURE:
; NAME/KEY: misc feature
; LOCATION: (8)_(8)
; OTHER INFORMATION: n is a, c, g, or t
US-11-099-683-105

Query Match 95.0%; Score 19; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 1.7;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 TCCATGTCGTCCTGATGCT 20
|||
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 23
US-10-533-634-29
; Sequence 29, Application US/10533634
; Publication No. US20060019239A1
; GENERAL INFORMATION:
; APPLICANT: THE UNITED STATES OF AMERICA AS REPRESENTED BY THE
; APPLICANT: SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES
; APPLICANT: Kliman, Dennis M.
; APPLICANT: Ivins, Bruce
; APPLICANT: Vertheulyi, Daniela
; TITLE OF INVENTION: METHOD OF PREVENTING INFECTIONS FROM BIOTERRORISM AGENTS WITH
; FILE REFERENCE: 4239-67021-06
; CURRENT APPLICATION NUMBER: US/10/533,634
; CURRENT FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: PCT/US2003/034523
; PRIOR FILING DATE: 2003-10-31
; PRIOR APPLICATION NUMBER: US 60/422,964
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 29
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence

```

; FEATURE:
; OTHER INFORMATION: K oligonucleotide
US-10-533-634-29

Query Match          92.0%; Score 18.4; DB 7; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
    ||||| ||||| ||||| |||||
Db 1 TCCATGACGTCCTGATGCT 20

RESULT 24
US-10-497-591A-12
; Sequence 12, Application US/10497591A
; Publication No. US20050250716A1
; GENERAL INFORMATION:
; APPLICANT: SCHMIDT, WALTER
; APPLICANT: SCHELLACK, CAROLA
; APPLICANT: EGYED, ALENA
; APPLICANT: LINGNAU, KAREN
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
; FILE REFERENCE: SONN:045US
; CURRENT APPLICATION NUMBER: US/10/497,591A
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primer
US-10-497-591A-12

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
    ||||| ||||| ||||| |||||
Db 1 TCCATGACGTCCTGATGCT 20

RESULT 25
US-10-469-561-9
; Sequence 9, Application US/10469561
; Publication No. US20050260216A1
; GENERAL INFORMATION:
; APPLICANT: Claire Ashman
; APPLICANT: James Scott Crowe
; APPLICANT: Jonathan Henry Ellis
; APPLICANT: Alan Peter Lewis
; TITLE OF INVENTION: VACCINE
; FILE REFERENCE: PG435USW
; CURRENT APPLICATION NUMBER: US/10/469,561
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 20
; TYPE: DNA
; ORGANISM: unknown
; FEATURE:
; OTHER INFORMATION: synthetic immunostimulatory oligonucleotide
US-10-469-561-9
```

```

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
    ||||| ||||| ||||| |||||
Db 1 TCCATGACGTCCTGATGCT 20

RESULT 26
US-10-619-279-7
; Sequence 7, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-7

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
    ||||| ||||| ||||| |||||
Db 1 TCCATGACGTCCTGATGCT 20

RESULT 27
US-10-619-279-28
; Sequence 28, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 28
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-28
```

Query Match 92.0%; Score 18.4; DB 8; Length 20;

Best Local Similarity 95.0%; Pred. No. 3.5;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20

Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 28

US-10-619-279-36

Sequence 36, Application US/10619279

Publication No. US20050267057A1

GENERAL INFORMATION:

APPLICANT: Krieger, Arthur M.

TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

FILE REFERENCE: C1039/7023/HCL

CURRENT APPLICATION NUMBER: US/10/619,279

PRIOR FILING DATE: 2003-07-14

PRIOR APPLICATION NUMBER: US 08/960,774

PRIOR FILING DATE: 1997-10-30

PRIOR APPLICATION NUMBER: US 08/738,652

PRIOR FILING DATE: 1996-10-30

PRIOR APPLICATION NUMBER: US 08/386,063

PRIOR FILING DATE: 1995-02-07

PRIOR APPLICATION NUMBER: US 08/276,358

PRIOR FILING DATE: 1994-07-15

NUMBER OF SEQ ID NOS: 123

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 36

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

US-10-619-279-36

Query Match 92.0%; Score 18.4; DB 8; Length 20;

Best Local Similarity 95.0%; Pred. No. 3.5;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20

Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 29

US-10-619-279-37

Sequence 37, Application US/10619279

Publication No. US20050267057A1

GENERAL INFORMATION:

APPLICANT: Krieger, Arthur M.

TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

FILE REFERENCE: C1039/7023/HCL

CURRENT APPLICATION NUMBER: US/10/619,279

PRIOR FILING DATE: 2003-07-14

PRIOR APPLICATION NUMBER: US 08/960,774

PRIOR FILING DATE: 1997-10-30

PRIOR APPLICATION NUMBER: US 08/738,652

PRIOR FILING DATE: 1996-10-30

PRIOR APPLICATION NUMBER: US 08/386,063

PRIOR FILING DATE: 1995-02-07

PRIOR APPLICATION NUMBER: US 08/276,358

PRIOR FILING DATE: 1994-07-15

NUMBER OF SEQ ID NOS: 123

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 37

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

US-10-619-279-37

Query Match 92.0%; Score 18.4; DB 8; Length 20;

Best Local Similarity 95.0%; Pred. No. 3.5;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20

Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 30

US-10-435-656-7

Sequence 7, Application US/10435656

Publication No. US20050277604A1

GENERAL INFORMATION:

APPLICANT: Krieger, Arthur M.

APPLICANT: Kline, Joel N.

APPLICANT: Kline, Dennis

APPLICANT: Steinberg, Alfred D.

TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

FILE REFERENCE: C1039/7048 (AMS)

CURRENT APPLICATION NUMBER: US/10/435,656

PRIOR FILING DATE: 2003-05-09

PRIOR APPLICATION NUMBER: US 08/276,358

PRIOR FILING DATE: 1994-07-15

PRIOR APPLICATION NUMBER: US 08/386,063

PRIOR FILING DATE: 1995-02-07

PRIOR APPLICATION NUMBER: US 08/738,652

PRIOR FILING DATE: 1996-10-30

NUMBER OF SEQ ID NOS: 56

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 7

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

US-10-435-656-7

Query Match 92.0%; Score 18.4; DB 8; Length 20;

Best Local Similarity 95.0%; Pred. No. 3.5;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20

Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 31

US-10-435-656-31

Sequence 31, Application US/10435656

Publication No. US20050277604A1

GENERAL INFORMATION:

APPLICANT: Krieger, Arthur M.

APPLICANT: Kline, Joel N.

APPLICANT: Kline, Dennis

APPLICANT: Steinberg, Alfred D.

TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

FILE REFERENCE: C1039/7048 (AMS)

CURRENT APPLICATION NUMBER: US/10/435,656

PRIOR FILING DATE: 2003-05-09

PRIOR APPLICATION NUMBER: US 08/276,358

PRIOR FILING DATE: 1994-07-15

PRIOR APPLICATION NUMBER: US 08/386,063

PRIOR FILING DATE: 1995-02-07

PRIOR APPLICATION NUMBER: US 08/738,652

PRIOR FILING DATE: 1996-10-30

NUMBER OF SEQ ID NOS: 56

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO 31

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-31

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
 |||||
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 32

US-10-435-656-33
Sequence 33, Application US/10435656
Publication No. US2005027604A1
GENERAL INFORMATION:

APPLICANT: Kriegl, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/10/435,656
PRIOR FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 33
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
FEATURE:
NAME/KEY: modified base
LOCATION: (8) ... (8)
OTHER INFORMATION: msc
US-10-435-656-33

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
 |||||
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 33

US-10-435-656-34
Sequence 34, Application US/10435656
Publication No. US2005027604A1
GENERAL INFORMATION:

APPLICANT: Kriegl, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/10/435,656
PRIOR FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07

PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 34
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
FEATURE:
NAME/KEY: modified base
LOCATION: (12) ... (12)
OTHER INFORMATION: msc
US-10-435-656-34

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
 |||||
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 34

US-10-435-656-35
Sequence 35, Application US/10435656
Publication No. US2005027604A1
GENERAL INFORMATION:

APPLICANT: Kriegl, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/10/435,656
PRIOR FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 35
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-35

Query Match 92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
 |||||
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 35

US-10-435-656-37
Sequence 37, Application US/10435656
Publication No. US2005027604A1
GENERAL INFORMATION:

APPLICANT: Kriegl, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules


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FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/10/435,656
CURRENT FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 37
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-37

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTCGATGCT 20
Db 1 TCCATGTCGTCCTCGATGCT 20

RESULT 36
US-10-435-656-41
Sequence 41, Application US/10435656
Publication No. US20050277604A1
GENERAL INFORMATION:
APPLICANT: Kline, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/10/435,656
CURRENT FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 41
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-41

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTCGATGCT 20
Db 1 TCCATGTCGTCCTCGATGCT 20

RESULT 37
US-10-435-656-42
Sequence 42, Application US/10435656
Publication No. US20050277604A1
GENERAL INFORMATION:
APPLICANT: Kline, Arthur M.
APPLICANT: Kline, Joel N.
```

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APPLICANT: Kline, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/10/435,656
CURRENT FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 42
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-42

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTCGATGCT 20
Db 1 TCCATGTCGTCCTCGATGCT 20

RESULT 38
US-10-435-656-44
Sequence 44, Application US/10435656
Publication No. US20050277604A1
GENERAL INFORMATION:
APPLICANT: Kline, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/10/435,656
CURRENT FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 44
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-44

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTCGATGCT 20
Db 1 TCCATGTCGTCCTCGATGCT 20

RESULT 39
US-10-435-656-54
Sequence 54, Application US/10435656
Publication No. US20050277604A1
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; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-54

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGTCGTTCTCTGATGCT 20
         ||||| ||||| ||||| |||||
DB      1  TCCATGACGTTCTCTGATGCT 20

RESULT 40
US-11-127-797-21
; Sequence 21, Application US/11127797
; Publication No. US20050245477A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/127,797
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 21
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-797-21

Query Match          92.0%; Score 18.4; DB 10; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1  TCCATGTCGTTCTCTGATGCT 20
         ||||| ||||| ||||| |||||
DB      1  TCCATGTCGTTCTCTGATGCT 20
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Search completed: March 8, 2006, 21:10:40
Job time : 308.113 secs

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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 19:48:19 ; Search time 419.057 Seconds

(without alignments)
394.666 Million cell updates/sec

Title: US-09-337-584-38

Perfect score: 20

Sequence: 1 tccatgcgcgtcccgatgct 20

Scoring table: IDENTITY_NUC

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Published Applications NA Main:
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2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq.*
3: /cgn2_6/ptodata/1/pubpna/US09_PUBCOMB.seq.*
4: /cgn2_6/ptodata/1/pubpna/US10_PUBCOMB.seq.*
5: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq.*
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8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq.*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq.*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	3	US-09-824-468-48
2	20	100.0	20	3	US-09-824-468-56
3	20	100.0	20	3	US-09-824-468-57
4	20	100.0	20	3	US-09-800-266A-49
5	20	100.0	20	3	US-09-895-007A-49
6	20	100.0	20	3	US-09-920-313-49
7	20	100.0	20	3	US-09-888-326-62
8	20	100.0	20	3	US-09-888-326-61
9	20	100.0	20	3	US-09-818-918-43
10	20	100.0	20	3	US-09-818-918-53
11	20	100.0	20	3	US-09-931-583-57
12	20	100.0	20	3	US-09-776-479-116
13	20	100.0	20	3	US-09-776-479-759
14	20	100.0	20	3	US-09-954-987B-96
15	20	100.0	20	3	US-09-967-464-6
16	20	100.0	20	3	US-09-874-991C-43
17	20	100.0	20	3	US-09-874-991C-109
18	20	100.0	20	3	US-09-874-991C-132
19	20	100.0	20	3	US-09-874-991C-160
20	20	100.0	20	3	US-09-874-991C-181
21	20	100.0	20	3	US-09-874-991C-206
22	20	100.0	20	3	US-09-874-991C-422
23	20	100.0	20	3	US-09-874-991C-441

24	20	100.0	20	3	US-09-776-479-136	Sequence 136, App
25	20	100.0	20	3	US-09-776-479-759	Sequence 759, App
26	20	100.0	20	3	US-09-965-101-71	Sequence 71, App1
27	20	100.0	20	5	US-10-023-909A-49	Sequence 49, App1
28	20	100.0	20	5	US-10-074-956-2	Sequence 2, App1
29	20	100.0	20	5	US-10-112-653-8	Sequence 8, App1
30	20	100.0	20	5	US-10-112-653-129	Sequence 129, App
31	20	100.0	20	5	US-10-112-653-732	Sequence 732, App
32	20	100.0	20	5	US-10-017-995-136	Sequence 136, App
33	20	100.0	20	5	US-10-017-995-759	Sequence 759, App
34	20	100.0	20	5	US-10-300-247-49	Sequence 49, App1
35	20	100.0	20	5	US-10-161-229-43	Sequence 43, App1
36	20	100.0	20	6	US-10-187-254A-38	Sequence 38, App1
37	20	100.0	20	6	US-10-265-072-94	Sequence 94, App1
38	20	100.0	20	6	US-10-306-552-38	Sequence 38, App1
39	20	100.0	20	6	US-10-314-578-136	Sequence 136, App
40	20	100.0	20	6	US-10-314-578-759	Sequence 759, App
41	20	100.0	20	6	US-10-434-696-49	Sequence 49, App1
42	20	100.0	20	7	US-10-373-381-43	Sequence 43, App1
43	20	100.0	20	7	US-10-373-381-44	Sequence 44, App1
44	20	100.0	20	7	US-10-719-453-38	Sequence 38, App1
45	20	100.0	20	7	US-10-627-331-38	Sequence 38, App1
46	20	100.0	20	7	US-10-666-733-49	Sequence 49, App1
47	20	100.0	20	7	US-10-743-625-43	Sequence 43, App1
48	20	100.0	20	7	US-10-743-625-53	Sequence 53, App1
49	20	100.0	20	7	US-10-679-710-43	Sequence 43, App1
50	20	100.0	20	7	US-10-679-710-53	Sequence 53, App1
51	20	100.0	20	7	US-10-769-282-43	Sequence 43, App1
52	20	100.0	20	8	US-10-769-282-53	Sequence 53, App1
53	20	100.0	20	8	US-10-817-165-43	Sequence 43, App1
54	20	100.0	20	8	US-10-817-165-53	Sequence 53, App1
55	20	100.0	20	8	US-10-857-733-49	Sequence 49, App1
56	20	100.0	20	8	US-10-877-369-49	Sequence 49, App1
57	20	100.0	20	8	US-10-877-369-44	Sequence 44, App1
58	20	100.0	20	8	US-10-877-369-43	Sequence 43, App1
59	20	100.0	20	8	US-10-816-220-49	Sequence 49, App1
60	20	100.0	20	8	US-10-831-778-136	Sequence 136, App
61	20	100.0	20	8	US-10-831-778-159	Sequence 759, App
62	20	100.0	20	8	US-10-876-892-44	Sequence 44, App1
63	20	100.0	20	8	US-10-876-892-43	Sequence 43, App1
64	20	100.0	20	8	US-10-876-965-43	Sequence 43, App1
65	20	100.0	20	8	US-10-876-965-44	Sequence 44, App1
66	20	100.0	20	8	US-10-888-886-49	Sequence 49, App1
67	20	100.0	20	8	US-10-847-642-53	Sequence 53, App1
68	20	100.0	20	8	US-10-847-642-53	Sequence 53, App1
69	20	100.0	20	8	US-10-838-659-71	Sequence 71, App1
70	20	100.0	20	8	US-10-888-785-43	Sequence 43, App1
71	20	100.0	20	8	US-10-888-785-53	Sequence 53, App1
72	20	100.0	20	8	US-10-649-584-57	Sequence 57, App1
73	20	100.0	20	8	US-10-831-775-49	Sequence 49, App1
74	20	100.0	20	9	US-10-888-449-53	Sequence 43, App1
75	20	100.0	20	9	US-10-888-449-53	Sequence 53, App1
76	20	100.0	20	9	US-10-894-862-49	Sequence 49, App1
77	20	100.0	20	9	US-10-894-862-50	Sequence 50, App1
78	20	100.0	20	9	US-10-894-862-49	Sequence 49, App1
79	20	100.0	20	9	US-10-894-862-50	Sequence 50, App1
80	20	100.0	20	9	US-10-884-852-53	Sequence 53, App1
81	20	100.0	20	9	US-10-884-852-53	Sequence 53, App1
82	20	100.0	20	9	US-10-613-916-43	Sequence 43, App1
83	20	100.0	20	9	US-10-613-916-53	Sequence 53, App1
84	20	100.0	20	9	US-10-627-413-38	Sequence 38, App1
85	20	100.0	20	9	US-10-921-086-38	Sequence 38, App1
86	20	100.0	20	9	US-10-928-762-43	Sequence 43, App1
87	20	100.0	20	9	US-10-928-762-53	Sequence 53, App1
88	20	100.0	20	9	US-10-987-146-43	Sequence 43, App1
89	20	100.0	20	9	US-10-987-146-53	Sequence 53, App1
90	20	100.0	20	9	US-10-972-301-49	Sequence 49, App1
91	20	100.0	20	9	US-10-972-301-50	Sequence 50, App1
92	20	100.0	20	9	US-10-831-647-43	Sequence 43, App1
93	20	100.0	20	9	US-10-831-647-53	Sequence 53, App1
94	20	100.0	20	9	US-10-956-464-53	Sequence 43, App1
95	20	100.0	20	9	US-10-956-464-53	Sequence 53, App1
96	20	100.0	20	9	US-10-492-002-49	Sequence 49, App1

97	20	100.0	20	9	US-10-956-745-43	Sequence 43, Appl
98	20	100.0	20	9	US-10-956-745-53	Sequence 53, Appl
99	20	100.0	20	10	US-11-036-527-43	Sequence 43, Appl
100	20	100.0	20	10	US-11-036-527-53	Sequence 53, Appl

ALIGNMENTS

RESULT 1

US-09-824-468-48
; Sequence 48, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 48
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-48

Query Match

Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGTCGTTCTGATGCT 20
|||||

DB 1 TCATGTCGTTCTGATGCT 20

RESULT 2

US-09-824-468-56
; Sequence 56, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 56
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-56

Query Match

Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGTCGTTCTGATGCT 20
|||||

DB	1	TCATGTCGTTCTGATGCT	20
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RESULT 3
US-09-824-468-57
; Sequence 57, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-57

Query Match

Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGTCGTTCTGATGCT 20
|||||

DB 1 TCATGTCGTTCTGATGCT 20

RESULT 4

US-09-800-266A-49
; Sequence 49, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-49

Query Match

Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGTCGTTCTGATGCT 20
|||||

DB 1 TCATGTCGTTCTGATGCT 20

RESULT 5
US-09-895-007A-49
; Sequence 49, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; FILE REFERENCE: C1041/7014 (AMS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; PRIOR FILING DATE: 2000-06-28
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-49

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCCGATGCT 20
DB 1 TCCATGTCGTTCCGATGCT 20

RESULT 6
US-09-920-313-49
; Sequence 49, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-49

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCCGATGCT 20
DB 1 TCCATGTCGTTCCGATGCT 20

RESULT 7
US-09-888-326-62/c
; Sequence 62, Application US/09888326
; Publication No. US20030026601A1

; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AMS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 62
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)..(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-62

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCCGATGCT 20
DB 20 TCCATGTCGTTCCGATGCT 1

RESULT 8
US-09-888-326-611
; Sequence 611, Application US/09888326
; Publication No. US20030026601A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TITLE OF INVENTION: Cell Lysis and Treating Cancer
; FILE REFERENCE: C1039/7052 (AMS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 611
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)..(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-611

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCCGATGCT 20
DB 1 TCCATGTCGTTCCGATGCT 20

RESULT 9
US-09-818-918-43
; Sequence 43, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:

```

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Kliman, Dennis
; CURRENT FILING DATE: 2001-03-27
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-43
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TCCATGTCGTTCTCGATGCT 20
    |||||
Db 1 TCCATGTCGTTCTCGATGCT 20
```

```

RESULT 10
; US-09-818-918-53
; Sequence 53, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT FILING DATE: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)T
; OTHER INFORMATION: msc
US-09-818-918-53
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TCCATGTCGTTCTCGATGCT 20
    |||||
Db 1 TCCATGTCGTTCTCGATGCT 20
```

```

RESULT 11
; US-09-931-583-57
; Sequence 57, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT FILING DATE: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 57
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-57
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TCCATGTCGTTCTCGATGCT 20
    |||||
Db 1 TCCATGTCGTTCTCGATGCT 20
```

```

RESULT 12
; US-09-776-479-136/c
; Sequence 136, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouton, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT FILING DATE: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 136
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-136
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 TCCATGTCGTTCTCGATGCT 20
    |||||
Db 20 TCCATGTCGTTCTCGATGCT 1
```

```

RESULT 13
US-09-776-479-759
```

Sequence 759, Application US/09776479
Publication No. US20030087848A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
APPLICANT: Fourn, Yves
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
FILE REFERENCE: C10377013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR FILING DATE: 2000-02-03
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 759
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-759

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGTCGTTCTGATGCT 20
DB 1 TCCATGTCGTTCTGATGCT 20

RESULT 14
US-09-954-987B-96
Sequence 96, Application US/09954987B
Publication No. US20030104523A1
GENERAL INFORMATION:
APPLICANT: Stefan Bauer
APPLICANT: Grayson B. Lidford
APPLICANT: Hermann Wagner
TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
FILE REFERENCE: C10417016 (AMS)
CURRENT APPLICATION NUMBER: US/09/954,987B
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: US 60/233,035
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/263,657
PRIOR FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 60/291,726
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 60/300,210
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 230
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 96
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-96

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGTCGTTCTGATGCT 20
DB 1 TCCATGTCGTTCTGATGCT 20

RESULT 15

US-09-967-464-6
Sequence 6, Application US/09967464
Publication No. US20030138453A1
GENERAL INFORMATION:
APPLICANT: O'Hagan, Derek
APPLICANT: Otten, Gillis
APPLICANT: Donnelly, John J.
APPLICANT: Polo, John M.
APPLICANT: Barnett, Susan
APPLICANT: Singh, Mamohan
APPLICANT: Ulmer, Jeffrey
APPLICANT: Dubensky, Jr, Thomas W.
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF HETEROLOGOUS NUCLEIC ACIDS
FILE REFERENCE: P16269.004
CURRENT APPLICATION NUMBER: US/09/967,464
CURRENT FILING DATE: 2002-04-11
PRIOR APPLICATION NUMBER: 60/236,105
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/315,905
PRIOR FILING DATE: 2001-08-30
NUMBER OF SEQ ID NOS: 68
SOFTWARE: PatentIn version 3.1
SEQ ID NO 6
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial sequence is synthesized
US-09-967-464-6

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGTCGTTCTGATGCT 20
DB 1 TCCATGTCGTTCTGATGCT 20

RESULT 16
US-09-874-991C-43
Sequence 43, Application US/09874991C
Publication No. US20040052763A1
GENERAL INFORMATION:
APPLICANT: MOND, JAMES J.
APPLICANT: FLORA, MICHAEL
APPLICANT: KLINMAN, DENNIS M.
TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
FILE REFERENCE: 07787.0042-0
CURRENT APPLICATION NUMBER: US/09/874,991C
CURRENT FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 60/209,797
PRIOR FILING DATE: 2000-06-07
NUMBER OF SEQ ID NOS: 620
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 43
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGTCGTTCTGATGCT 20
DB 1 TCCATGTCGTTCTGATGCT 20

RESULT 17

```
US-09-874-991C-109
; Sequence 109, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: FLORA, MICHAEL
; APPLICANT: MOND, JAMES J.
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 109
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-109

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 18
US-09-874-991C-132
; Sequence 132, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 132
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-132

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 19
US-09-874-991C-160
; Sequence 160, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
```

```
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 160
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-160

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 20
US-09-874-991C-181
; Sequence 181, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 181
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-181

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTTCTCTGATGCT 20
   |||||
Db 1 TCCATGTCGTTCTCTGATGCT 20

RESULT 21
US-09-874-991C-206
; Sequence 206, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787.0042-0
; CURRENT APPLICATION NUMBER: US/09/874,991C
; PRIOR FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; NUMBER OF SEQ ID NOS: 620
```



```
SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 206
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-206

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
DB 1 TCCATGTCGTTCTGATGCT 20

RESULT 22
US-09-874-991C-422
; Sequence 422, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07/87,0042-0
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 422
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-422

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
DB 1 TCCATGTCGTTCTGATGCT 20

RESULT 23
US-09-874-991C-441
; Sequence 441, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07/87,0042-0
; CURRENT FILING DATE: 2001-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 441
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
```

```
US-09-874-991C-441

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
DB 1 TCCATGTCGTTCTGATGCT 20

RESULT 24
US-09-776-479-136/C
; Sequence 136, Application US/09776479
; Publication No. US20040067902A9
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2000-02-02
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 136
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-136

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
DB 20 TCCATGTCGTTCTGATGCT 1

RESULT 25
US-09-776-479-759
; Sequence 759, Application US/09776479
; Publication No. US20040067902A9
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2000-02-02
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 759
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-759

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

OY      1  TCCATGTCGTCTCGATGCT 20
        |||
Db      1  TCCATGTCGTCTCGATGCT 20

RESULT 26
US-09-965-101-71
; Sequence 71, Application US/099565101
; Publication No. US20040186067A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Kriesg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 71
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-71

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred.No. 5.4;
Matches    20; Conservative   0; Mismatches     0; Indels    0; Gaps    0;

OY      1  TCCATGTCGTCTCGATGCT 20
        |||
Db      1  TCCATGTCGTCTCGATGCT 20

RESULT 27
US-10-023-909A-49
; Sequence 49, Application US/10023909A
; Publication No. US20020164341A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Kriesg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7058/HCL
; CURRENT APPLICATION NUMBER: US/10/023,909A
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

```

```

; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-023-909A-49
Query Match          100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGTTCCGTGATGCT 20
        |||||
        1 TCCATGTCGTTCCGTGATGCT 20
        |||||

Db
1 TCCATGTCGTTCCGTGATGCT 20
|||

RESULT 28
US-10-074-956-2
; Sequence 2, Application US/10074956
; Publication No. US20020193332A1
; GENERAL INFORMATION:
; APPLICANT: Hedley, Mary Lynne
; TITLE OF INVENTION: METHODS OF TREATING BLADDER DISORDERS
; FILE REFERENCE: 08191-02201
; CURRENT APPLICATION NUMBER: US/10/074,956
; CURRENT FILING DATE: 2002-06-10
; PRIOR APPLICATION NUMBER: 60/268,175
; PRIOR FILING DATE: 2001-02-12
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-074-956-2

Query Match          100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGTTCCGTGATGCT 20
        |||||
        1 TCCATGTCGTTCCGTGATGCT 20
        |||||

Db
1 TCCATGTCGTTCCGTGATGCT 20
|||

RESULT 29
US-10-112-653-8
; Sequence 8, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Berg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; FILE REFERENCE: C01039/70060(AWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 8
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)-(8)
; OTHER INFORMATION: msc
US-10-112-653-8

Query Match          100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGTTCCGTGATGCT 20
        |||||
        1 TCCATGTCGTTCCGTGATGCT 20
        |||||

Db
1 TCCATGTCGTTCCGTGATGCT 20
|||

```

```
Db      |||||
1  TCATGTCGTTCTGATGCT 20

RESULT 30
US-10-112-653-129/c
; Sequence 129, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; FILE REFERENCE: C01039/70060(AMS)
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 129
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-129

Query Match      100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      |||||
1  TCATGTCGTTCTGATGCT 20
Db      |||||
20  TCATGTCGTTCTGATGCT 1

RESULT 31
US-10-112-653-732
; Sequence 732, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; FILE REFERENCE: C01039/70060(AMS)
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 732
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-732

Query Match      100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      |||||
1  TCATGTCGTTCTGATGCT 20
Db      |||||
1  TCATGTCGTTCTGATGCT 20

RESULT 32
US-10-017-995-136/c
; Sequence 136, Application US/10017995
```

```
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US/10/017,995
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 136
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-136

Query Match      100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      |||||
1  TCATGTCGTTCTGATGCT 20
Db      |||||
20  TCATGTCGTTCTGATGCT 1

RESULT 33
US-10-017-995-759
; Sequence 759, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 759
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-759

Query Match      100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      |||||
1  TCATGTCGTTCTGATGCT 20
Db      |||||
1  TCATGTCGTTCTGATGCT 20

RESULT 34
US-10-300-247-49
; Sequence 49, Application US/10300247
; Publication No. US20030091599A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7058/HCL
; CURRENT APPLICATION NUMBER: US/10/300,247
; CURRENT FILING DATE: 2002-11-20
; PRIOR APPLICATION NUMBER: US 09/325,193
```

```

; PRIOR FILING DATE: 1998-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/440,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-300-247-49

Query Match          100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
   |||||||
DB 1 TCCATGTCGTTCTGATGCT 20

RESULT 35
US-10-161-229-43
; Sequence 43, Application US/10161229
; Publication No. US20030100527A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules for
; FILE REFERENCE: C01039/70061
; CURRENT APPLICATION NUMBER: US/10/161,229
; CURRENT FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: US 09/191,170
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-161-229-43

Query Match          100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
   |||||||
DB 1 TCCATGTCGTTCTGATGCT 20

RESULT 36
US-10-187-264A-38
; Sequence 38, Application US/10187264A
; Publication No. US2003012734A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Steinberg, Alfred D.
```

```

; APPLICANT: Klimman, Dennis
; TITLE OF INVENTION: Methods for Treating and Preventing
; FILE REFERENCE: C01039,70062.US
; CURRENT APPLICATION NUMBER: US/10/187,264A
; CURRENT FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-187-264A-38

Query Match          100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
   |||||||
DB 1 TCCATGTCGTTCTGATGCT 20

RESULT 37
US-10-265-072-94
; Sequence 94, Application US/10265072
; Publication No. US20030166001A1
; GENERAL INFORMATION:
; APPLICANT: Lipford, Grayson
; TITLE OF INVENTION: TOLL-LIKE RECEPTOR 3 SIGNALING AGONISTS AND ANTAGONISTS
; FILE REFERENCE: C01041,70031.US
; CURRENT APPLICATION NUMBER: US/10/265,072
; CURRENT FILING DATE: 2002-10-05
; NUMBER OF SEQ ID NOS: 117
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 94
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-265-072-94

Query Match          100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
   |||||||
DB 1 TCCATGTCGTTCTGATGCT 20

RESULT 38
US-10-306-522-38
; Sequence 38, Application US/10306522
; Publication No. US20030191079A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klimman, Dennis
; APPLICANT: Steinberg, Alfred D.
```

```

; TITLE OF INVENTION: Methode for Treating and Preventing
; TITLE OF INVENTION: Infectious Disease
; FILE REFERENCE: C01039.70082.US
; CURRENT APPLICATION NUMBER: US/10/306,522
; PRIOR FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-306-522-38
```

```

Query Match      100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      1  TCATGTCGTTCTGATGCT 20
Db      1  TCATGTCGTTCTGATGCT 20
```

```

RESULT 39
US-10-314-578-136/c
; Sequence 136, Application US/10314578
; Publication No. US20030212026A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Schelter, Christian
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/314,578
; PRIOR FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-25
; PRIOR APPLICATION NUMBER: US 60/156,135
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 60/227,436
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 136
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-314-578-136
```

```

Query Match      100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      1  TCATGTCGTTCTGATGCT 20
Db      20  TCATGTCGTTCTGATGCT 1
```

```

RESULT 40
US-10-314-578-759
```

```

; Sequence 759, Application US/10314578
; Publication No. US20030212026A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Schelter, Christian
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/314,578
; PRIOR FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-25
; PRIOR APPLICATION NUMBER: US 60/156,135
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 60/227,436
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 759
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-314-578-759
```

```

Query Match      100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      1  TCATGTCGTTCTGATGCT 20
Db      1  TCATGTCGTTCTGATGCT 20
```

```

Search completed: March 8, 2006, 20:43:22
Job time : 419.057 secs
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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 01:35:44 ; Search time 89.813 Seconds

(without alignments)
395.844 Million cell updates/sec

Title: US-09-337-564-38

Perfect score: 20

Sequence: 1 tccatgctcgtcccgatgct 20

Scoring table: IDENTITY_NUC

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Database : Issued Patents NA:*

1: /cgn2_6/ptodata/1/ina/1/COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5/COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A/COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B/COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H/COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCRTUS/COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP/COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE/COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-08-738-652-43
2	20	100.0	20	3	US-08-738-652-53
3	20	100.0	20	3	US-09-030-701-5
4	20	100.0	20	3	US-09-286-098-48
5	20	100.0	20	3	US-09-286-098-56
6	20	100.0	20	3	US-09-286-098-57
7	20	100.0	20	3	US-08-960-774-38
8	20	100.0	20	3	US-09-082-649B-71
9	20	100.0	20	3	US-09-325-193A-49
10	20	100.0	20	3	US-09-191-170-43
11	20	100.0	20	3	US-09-191-170-51
12	20	100.0	20	3	US-09-337-619-38
13	20	100.0	20	3	US-09-965-101-71
14	20	100.0	20	3	US-09-954-987B-96
15	20	100.0	20	3	US-09-954-987B-96
16	19	95.0	20	3	US-09-030-701-25
17	19	95.0	20	3	US-08-960-774-44
18	19	95.0	20	3	US-09-082-649B-72
19	19	95.0	20	3	US-09-337-619-44
20	19	95.0	20	3	US-09-965-101-72
21	18.4	92.0	20	2	US-08-442-705-7
22	18.4	92.0	20	2	US-08-442-705-7
23	18.4	92.0	20	2	US-08-333-829-7
24	18.4	92.0	20	2	US-09-133-774-11

25	18.4	92.0	20	3	US-08-386-063-21	Sequence 21, Appl
26	18.4	92.0	20	3	US-08-386-063-25	Sequence 25, Appl
27	18.4	92.0	20	3	US-09-303-862-11	Sequence 11, Appl
28	18.4	92.0	20	3	US-08-386-063-21	Sequence 21, Appl
29	18.4	92.0	20	3	US-08-386-063-25	Sequence 25, Appl
30	18.4	92.0	20	3	US-08-738-652-31	Sequence 31, Appl
31	18.4	92.0	20	3	US-08-738-652-31	Sequence 31, Appl
32	18.4	92.0	20	3	US-08-738-652-33	Sequence 33, Appl
33	18.4	92.0	20	3	US-08-738-652-34	Sequence 34, Appl
34	18.4	92.0	20	3	US-08-738-652-35	Sequence 35, Appl
35	18.4	92.0	20	3	US-08-738-652-37	Sequence 37, Appl
36	18.4	92.0	20	3	US-08-738-652-41	Sequence 41, Appl
37	18.4	92.0	20	3	US-08-738-652-42	Sequence 42, Appl
38	18.4	92.0	20	3	US-08-738-652-44	Sequence 44, Appl
39	18.4	92.0	20	3	US-08-738-652-54	Sequence 54, Appl
40	18.4	92.0	20	3	US-09-030-701-4	Sequence 4, Appl
41	18.4	92.0	20	3	US-09-286-098-22	Sequence 22, Appl
42	18.4	92.0	20	3	US-09-286-098-23	Sequence 23, Appl
43	18.4	92.0	20	3	US-09-286-098-24	Sequence 24, Appl
44	18.4	92.0	20	3	US-09-286-098-42	Sequence 42, Appl
45	18.4	92.0	20	3	US-09-286-098-46	Sequence 46, Appl
46	18.4	92.0	20	3	US-09-286-098-47	Sequence 47, Appl
47	18.4	92.0	20	3	US-08-960-774-7	Sequence 7, Appl
48	18.4	92.0	20	3	US-08-960-774-28	Sequence 28, Appl
49	18.4	92.0	20	3	US-08-960-774-36	Sequence 36, Appl
50	18.4	92.0	20	3	US-08-960-774-37	Sequence 37, Appl
51	18.4	92.0	20	3	US-09-082-649B-68	Sequence 68, Appl
52	18.4	92.0	20	3	US-09-082-649B-79	Sequence 79, Appl
53	18.4	92.0	20	3	US-09-325-193A-17	Sequence 17, Appl
54	18.4	92.0	20	3	US-09-325-193A-18	Sequence 18, Appl
55	18.4	92.0	20	3	US-09-325-193A-19	Sequence 19, Appl
56	18.4	92.0	20	3	US-09-325-193A-35	Sequence 35, Appl
57	18.4	92.0	20	3	US-09-325-193A-39	Sequence 39, Appl
58	18.4	92.0	20	3	US-09-325-193A-40	Sequence 40, Appl
59	18.4	92.0	20	3	US-09-325-193A-41	Sequence 41, Appl
60	18.4	92.0	20	3	US-09-191-170-20	Sequence 20, Appl
61	18.4	92.0	20	3	US-09-191-170-22	Sequence 22, Appl
62	18.4	92.0	20	3	US-09-191-170-23	Sequence 23, Appl
63	18.4	92.0	20	3	US-09-191-170-24	Sequence 24, Appl
64	18.4	92.0	20	3	US-09-191-170-42	Sequence 42, Appl
65	18.4	92.0	20	3	US-09-191-170-42	Sequence 42, Appl
66	18.4	92.0	20	3	US-09-171-425-5	Sequence 5, Appl
67	18.4	92.0	20	3	US-09-171-425-14	Sequence 14, Appl
68	18.4	92.0	20	3	US-09-690-921-5	Sequence 5, Appl
69	18.4	92.0	20	3	US-09-791-500-7	Sequence 7, Appl
70	18.4	92.0	20	3	US-09-337-619-7	Sequence 7, Appl
71	18.4	92.0	20	3	US-09-337-619-28	Sequence 28, Appl
72	18.4	92.0	20	3	US-09-337-619-36	Sequence 36, Appl
73	18.4	92.0	20	3	US-09-337-619-37	Sequence 37, Appl
74	18.4	92.0	20	3	US-09-965-101-68	Sequence 68, Appl
75	18.4	92.0	20	3	US-09-965-101-79	Sequence 79, Appl
76	18.4	92.0	20	3	US-10-764-718-2	Sequence 2, Appl
77	18.4	92.0	20	3	US-09-495-947-3	Sequence 3, Appl
78	18.4	92.0	20	3	US-09-954-987B-84	Sequence 84, Appl
79	18.4	92.0	20	3	US-09-954-987B-91	Sequence 91, Appl
80	18.4	92.0	20	3	US-09-954-987B-92	Sequence 92, Appl
81	18.4	92.0	20	3	US-09-954-987B-93	Sequence 93, Appl
82	18.4	92.0	20	3	US-09-954-987B-95	Sequence 95, Appl
83	18.4	92.0	20	3	US-09-954-987B-207	Sequence 207, Appl
84	18.4	92.0	20	3	US-09-672-126B-84	Sequence 84, Appl
85	18.4	92.0	20	3	US-09-672-126B-89	Sequence 89, Appl
86	18.4	92.0	20	3	US-09-672-126B-90	Sequence 90, Appl
87	18.4	92.0	20	3	US-09-672-126B-92	Sequence 92, Appl
88	18.4	92.0	20	3	US-09-672-126B-94	Sequence 94, Appl
89	18.4	92.0	25	3	US-09-396-196G-52295	Sequence 52295, A
90	18.4	92.0	25	3	US-09-396-196G-52296	Sequence 52296, A
91	18.4	92.0	29	3	US-08-848-229-2	Sequence 2, Appl
92	18.4	92.0	29	3	US-09-022-965-2	Sequence 2, Appl
93	18.4	92.0	1237	2	US-08-798-000-2	Sequence 2, Appl
94	18.4	92.0	2002	3	US-09-315-127-7	Sequence 7, Appl
95	18.4	92.0	3925	3	US-09-011-745-9	Sequence 9, Appl
96	18.4	92.0	8202	2	US-08-258-420-13	Sequence 13, Appl
97	17.4	87.0	19	3	US-09-286-098-20	Sequence 20, Appl

98	17.4	87.0	19	3	US-09-770-602-1	Sequence 1, Appli
99	17.4	87.0	19	3	US-09-770-602-2	Sequence 2, Appli
100	17.4	87.0	19	3	US-09-770-602-3	Sequence 3, Appli

ALIGNMENTS

RESULT 1

US-08-738-652-43
; Sequence 43, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
Db 1 TCCATGTCGTTCTGATGCT 20

RESULT 2

US-08-738-652-53
; Sequence 53, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 53
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-08-738-652-53

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
Db 1 TCCATGTCGTTCTGATGCT 20

RESULT 3

US-09-030-701-5
; Sequence 5, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-5

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
Db 1 TCCATGTCGTTCTGATGCT 20

RESULT 4

US-09-286-098-48
; Sequence 48, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 48
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-48

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGTCGTTCTGATGCT 20
Db 1 TCCATGTCGTTCTGATGCT 20

RESULT 5

US-09-286-098-56
 ; Sequence 56, Application US/09286098
 ; Patent No. 6218371
 ; GENERAL INFORMATION:
 ; APPLICANT: Krieg, Arthur M.
 ; APPLICANT: Weiner, George
 ; TITLE OF INVENTION: Methods and Products for Stimulating the
 ; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
 ; TITLE OF INVENTION: Cyclokinins
 ; FILE REFERENCE: C1039/7026/HCL
 ; CURRENT APPLICATION NUMBER: US/09/286,098
 ; CURRENT FILING DATE: 1999-04-02
 ; EARLIER APPLICATION NUMBER: US 60/080,729
 ; EARLIER FILING DATE: 1998-04-03
 ; NUMBER OF SEQ ID NOS: 105
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 56
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Sequence
 US-09-286-098-56

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
 |||||
 Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 6

US-09-286-098-57
 ; Sequence 57, Application US/09286098
 ; Patent No. 6218371
 ; GENERAL INFORMATION:
 ; APPLICANT: Krieg, Arthur M.
 ; APPLICANT: Weiner, George
 ; TITLE OF INVENTION: Methods and Products for Stimulating the
 ; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
 ; TITLE OF INVENTION: Cyclokinins
 ; FILE REFERENCE: C1039/7026/HCL
 ; CURRENT APPLICATION NUMBER: US/09/286,098
 ; CURRENT FILING DATE: 1999-04-02
 ; EARLIER APPLICATION NUMBER: US 60/080,729
 ; EARLIER FILING DATE: 1998-04-03
 ; NUMBER OF SEQ ID NOS: 105
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 57
 ; LENGTH: 20
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Synthetic Sequence
 ; FEATURE:
 ; NAME/KEY: modified Base
 ; LOCATION: (8)...(8)
 ; OTHER INFORMATION: m5c
 US-09-286-098-57

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
 |||||
 Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 7

US-08-960-774-38

; Sequence 38, Application US/08960774
 ; Patent No. 6239116
 ; GENERAL INFORMATION:
 ; APPLICANT: Krieg et al.,
 ; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
 ; NUMBER OF SEQUENCES: 111
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: Fish & Richardson P.C.
 ; STREET: 4225 Executive Square, Suite 1400
 ; CITY: La Jolla
 ; STATE: CA
 ; COUNTRY: USA
 ; ZIP: 92037
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Floppy disk
 ; COMPUTER: IBM PC compatible
 ; OPERATING SYSTEM: PC-DOS/MS-DOS
 ; SOFTWARE: ASCII text
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/960,774
 ; FILING DATE: 30-October-1997
 ; CLASSIFICATION: 514
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
 ; FILING DATE: October 30, 1996
 ; CLASSIFICATION: 514
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Haile, Lisa A.
 ; REGISTRATION NUMBER: 38,347
 ; REFERENCE/DOCKET NUMBER: 08918/012001
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 619/678-5070
 ; TELEFAX: 619/678-5099
 ; INFORMATION FOR SEQ ID NO: 38:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 20 base pairs
 ; TYPE: nucleic acid
 ; STRANDEDNESS: single
 ; TOPOLOGY: linear
 ; MOLECULE TYPE: cDNA
 US-08-960-774-38

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
 |||||
 Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 8

US-09-082-649B-71
 ; Sequence 71, Application US/09082649B
 ; Patent No. 6339068
 ; GENERAL INFORMATION:
 ; APPLICANT: Davis, Heather L.
 ; APPLICANT: Krieg, Arthur M.
 ; APPLICANT: Schott, Joachim
 ; APPLICANT: Wu, Tong
 ; TITLE OF INVENTION: Vectors and Methods for Immunization or
 ; TITLE OF INVENTION: Therapeutic Protocols
 ; FILE REFERENCE: C1039/7009
 ; CURRENT APPLICATION NUMBER: US/09/082,649B
 ; CURRENT FILING DATE: 1998-05-20
 ; PRIOR APPLICATION NUMBER: US 60/047,233
 ; PRIOR FILING DATE: 1997-05-20
 ; PRIOR APPLICATION NUMBER: US 60/047,209
 ; PRIOR FILING DATE: 1997-05-20
 ; NUMBER OF SEQ ID NOS: 85
 ; SOFTWARE: FastSeq for Windows Version 3.0
 ; SEQ ID NO 71

```
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-71
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGTCGTTCTGATGCT 20
         |||
Db       1  TCCATGTCGTTCTGATGCT 20
```

RESULT 9

US-09-325-193A-49

```
; Sequence 49, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-49
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGTCGTTCTGATGCT 20
         |||
Db       1  TCCATGTCGTTCTGATGCT 20
```

```
RESULT 10
US-09-191-170-43
; Sequence 43, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
```

```
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-43
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGTCGTTCTGATGCT 20
         |||
Db       1  TCCATGTCGTTCTGATGCT 20
```

RESULT 11

US-09-191-170-51

```
; Sequence 51, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5C
US-09-191-170-51
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGTCGTTCTGATGCT 20
         |||
Db       1  TCCATGTCGTTCTGATGCT 20
```

```
RESULT 12
US-09-337-619-38
; Sequence 38, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
```

```

; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 38
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-38
```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGTCGTTCTGATGCT 20
         |||
Db      1  TCCATGTCGTTCTGATGCT 20
```

```

RESULT 13
US-09-965-101-71
; Sequence 71, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Mu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US/09/965,101
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 71
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-965-101-71
```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGTCGTTCTGATGCT 20
         |||
Db      1  TCCATGTCGTTCTGATGCT 20
```

```

RESULT 14
US-09-495-947-4
; Sequence 4, Application US/09495947
; Patent No. 6887464
; GENERAL INFORMATION:
; APPLICANT: Coleman, Timothy P.
```

```

; APPLICANT: Peterson, Darrell L.
; TITLE OF INVENTION: Advanced Antigen Presentation Platform
; FILE REFERENCE: 05270001a
; CURRENT APPLICATION NUMBER: US/09/495,947
; CURRENT FILING DATE: 2000-02-02
; PRIOR APPLICATION NUMBER: US 60/118,526
; PRIOR FILING DATE: 1999-02-02
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Description of Artificial Sequence:
; OTHER INFORMATION: Immunostimulating oligonucleotides
US-09-495-947-4
```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGTCGTTCTGATGCT 20
         |||
Db      1  TCCATGTCGTTCTGATGCT 20
```

```

RESULT 15
US-09-954-987B-96
; Sequence 96, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US/09/954,987B
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 96
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURES:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-96
```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGTCGTTCTGATGCT 20
         |||
Db      1  TCCATGTCGTTCTGATGCT 20
```

```

RESULT 16
US-09-030-701-25
; Sequence 25, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
```

```

; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc.feature
; LOCATION: (8)..(8)
; OTHER INFORMATION: any nucleotide
US-09-030-701-25

Query Match          95.0%; Score 19; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.3;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TCCATGTCGTCCTGATGCT 20
        |||||
DB      1 TCCATGTCGTCCTGATGCT 20

RESULT 17
US-08-960-774-44
; Sequence 44, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5070
; TELECOMMUNICATION INFORMATION:
; REFERENCE/DOCKET NUMBER: 08918/012001
; INFORMATION FOR SEQ ID NO: 44:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
```

```

; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: 8..8
; OTHER INFORMATION: where N at position 8 is 5 methyl cytosine
US-08-960-774-44

Query Match          95.0%; Score 19; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.3;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TCCATGTCGTCCTGATGCT 20
        |||||
DB      1 TCCATGTCGTCCTGATGCT 20

RESULT 18
US-09-082-649B-72
; Sequence 72, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 72
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-72

Query Match          95.0%; Score 19; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGTCGTCCTGATGC 19
        |||||
DB      1 TCCATGTCGTCCTGATGC 19

RESULT 19
US-09-337-619-44
; Sequence 44, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
```

SEQ ID NO 44
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
FEATURE:
NAME/KEY: modified base
LOCATION: (8)...(8)
OTHER INFORMATION: m5c
US-09-337-619-44

Query Match 95.0%; Score 19; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 3.3;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 20
US-09-965-101-72
Sequence 72, Application US/09965101
Patent No. 6821957
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Kriegl, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1039/7057 (HCL/MAT)
CURRENT FILING DATE: 2001-09-26
PRIOR FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR APPLICATION NUMBER: US 60/047,209
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 72
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-72

Query Match 95.0%; Score 19; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 3.3;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 19
Db 1 TCCATGTCGTCCTGATGCT 19

RESULT 21
US-08-436-714-7
Sequence 7, Application US/08436714
Patent No. 5602244
GENERAL INFORMATION:
APPLICANT: Marvin H. Caruthers et al
TITLE OF INVENTION: Nucleoside and Polynucleotide
TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proc
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Yahwak & Associates
STREET: 25 Skytop Drive
CITY: Trumbull

STATE: Connecticut
COUNTRY: USA
ZIP: 06611
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft Word 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/436,714
FILING DATE:
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: George M. Yahwak
REGISTRATION NUMBER: 26,824
REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-436-714-7

Query Match 92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGTCGTCCTGATGCT 20
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 22
US-08-442-705-7
Sequence 7, Application US/08442705
Patent No. 5684148
GENERAL INFORMATION:
APPLICANT: Marvin H. Caruthers et al
TITLE OF INVENTION: Nucleoside and Polynucleotide
TITLE OF INVENTION: Thiophosphoramidite and Phosphorodithioate Compounds and Proc
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Yahwak & Associates
STREET: 25 Skytop Drive
CITY: Trumbull
STATE: Connecticut
COUNTRY: USA
ZIP: 06611
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft Word 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/442,705
FILING DATE:
CLASSIFICATION: 536
ATTORNEY/AGENT INFORMATION:
NAME: George M. Yahwak
REGISTRATION NUMBER: 26,824
REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid

STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-442-705-7

Query Match
Best Local Similarity 92.0%; DB 2; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCATGTCGTCCTGATGCT 20
|||||
Db 1 TCATGTCGTCCTGATGCT 20

RESULT 23
US-08-332-829-7
Sequence 7, Application US/08332829
Patent No. 5750666
GENERAL INFORMATION:

APPLICANT: Marvin H. Caruthers et al
TITLE OF INVENTION: Nucleoside and Polynucleotide
TITLE OF INVENTION: Thiophosphoramide and Phosphorodithioate Compounds and Proce
NUMBER OF SEQUENCES: 8
CORRESPONDENCE ADDRESS:
ADDRESSEE: Yahwak & Associates
STREET: 25 Skytop Drive
CITY: Trumbull
STATE: Connecticut
COUNTRY: USA
ZIP: 06611
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: Macintosh
OPERATING SYSTEM: MS-DOS
SOFTWARE: Microsoft Word 4.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/332,829
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: George M. Yahwak
REGISTRATION NUMBER: 26,824
REFERENCE/DOCKET NUMBER: CU 311 BIGCIP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (203)268-1951
TELEFAX: (203)268-1951
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-332-829-7

Query Match
Best Local Similarity 92.0%; DB 2; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCATGTCGTCCTGATGCT 20
|||||
Db 1 TCATGTCGTCCTGATGCT 20

RESULT 24
US-09-133-774-11
Sequence 11, Application US/09133774B
Patent No. 5962636
GENERAL INFORMATION:
APPLICANT: Bachmaier, Kurt
APPLICANT: Heesl, Andrew J.
APPLICANT: Neu M.D., Nikolaus
APPLICANT: Penninger, Josef M.

TITLE OF INVENTION: No. 5962636e1 Peptides Capable of Modulating Inflammatory Heart
TITLE OF INVENTION: Disease
FILE REFERENCE: A-536
CURRENT APPLICATION NUMBER: US/09/133,774B
CURRENT FILING DATE: 1998-08-12
NUMBER OF SEQ ID NOS: 26
SOFTWARE: Patent Ver. 2.0
SEQ ID NO 11
LENGTH: 20
TYPE: DNA
ORGANISM: Chlamydia trachomatis
FEATURE:
OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
OTHER INFORMATION: Chlamydia trachomatis.
US-09-133-774-11

Query Match
Best Local Similarity 92.0%; DB 2; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCATGTCGTCCTGATGCT 20
|||||
Db 1 TCATGTCGTCCTGATGCT 20

RESULT 25
US-08-386-063-21
Sequence 21, Application US/08386063
Patent No. 6008200
GENERAL INFORMATION:

APPLICANT: Arthur M. Krieg, M.D.
TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 STATE STREET, SUITE 510
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: ARNOLD, BETH E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-21

Query Match
Best Local Similarity 92.0%; DB 3; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCATGTCGTCCTGATGCT 20
|||||
Db 1 TCATGTCGTCCTGATGCT 20

```
RESULT 26
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION: 424
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-386-063-25

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TCCATGTCGTCCTGATGCT 20
        |||||
Db      1 TCCATGACGTTCTCTATGCT 20

RESULT 27
US-09-303-862-11
; Sequence 11, Application US/09303862
; Patent No. 6034230
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 6034230e1 Peptides Capable of Modulating Inflammatory Heart
; TITLE OF INVENTION: Disease
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/303,862
; CURRENT FILING DATE: 1999-05-03
; EARLIER APPLICATION NUMBER: 09/133,774
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
```

```
FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-303-862-11

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TCCATGTCGTCCTGATGCT 20
        |||||
Db      1 TCCATGACGTTCTCTATGCT 20

RESULT 28
US-08-386-063-21
; Sequence 21, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 21:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-386-063-21

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TCCATGTCGTCCTGATGCT 20
        |||||
Db      1 TCCATGTCGTCCTGATGCT 20

RESULT 29
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6194388
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Krieg, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
```

```
ADDRESSER: LAHIVE & COCKFIELD
STREET: 60 STATE STREET, SUITE 510
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02109-1875
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: ARNOLD, BETH E.
REGISTRATION NUMBER: 35,430
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-25
```

```
Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TCCATGCGTTCCTGATGCT 20
        |||||
Db      1 TCCATGCGTTCCTGATGCT 20
```

```
RESULT 30
US-08-738-652-7
; Sequence 7, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-7
```

```
Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TCCATGCGTTCCTGATGCT 20
        |||||
Db      1 TCCATGCGTTCCTGATGCT 20
```

```
RESULT 31
US-08-738-652-31
; Sequence 31, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 31
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-31
```

```
Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TCCATGCGTTCCTGATGCT 20
        |||||
Db      1 TCCATGCGTTCCTGATGCT 20
```

```
RESULT 32
US-08-738-652-33
; Sequence 33, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-08-738-652-33
```

```
Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1 TCCATGCGTTCCTGATGCT 20
        |||||
Db      1 TCCATGCGTTCCTGATGCT 20
```

```
RESULT 33
US-08-738-652-34
; Sequence 34, Application US/08738652B
```



```

; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 34
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified base
; LOCATION: (12)..(12)
; OTHER INFORMATION: msc
US-08-738-652-34

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTGATGCT 20
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 34
US-08-738-652-35
; Sequence 35, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-35

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTGATGCT 20
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 35
US-08-738-652-37
; Sequence 37, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
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; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 37
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-37

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 36
US-08-738-652-41
; Sequence 41, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 41
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-41

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.6;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTGATGCT 20
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 37
US-08-738-652-42
; Sequence 42, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
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; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-42

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Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 38
US-08-738-652-44
; Sequence 44, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-44

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 3; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTGATGCT 20
   |||||
Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 39
US-08-738-652-54
; Sequence 54, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
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; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-54

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 3; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTGATGCT 20
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Db 1 TCCATGTCGTCCTGATGCT 20

RESULT 40
US-09-030-701-4
; Sequence 4, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-4

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 3; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGTCGTCCTGATGCT 20
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Db 1 TCCATGTCGTCCTGATGCT 20

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Job time : 90.813 secs
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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 20:06:26 ; Search time 308.113 Seconds
(without alignments)
149.769 Million cell updates/sec

Title: US-09-337-584-12

Perfect score: 20
Sequence: 1 ggggcacacgttgaggggg 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7673375 seqs, 1153648444 residues

Total number of hits satisfying chosen parameters: 15346750

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

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Published Applications NA New: *
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13: /cgn2_6/ptodata/2/pubphn/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match Length	ID	Description
1	20	100.0	20	8	US-10-619-279-12
2	20	100.0	20	8	US-10-435-656-12
3	20	100.0	20	12	US-11-127-654-96
4	20	100.0	20	12	US-11-127-654-96
5	20	100.0	20	12	US-11-127-654-96
6	20	100.0	20	12	US-11-127-654-96
7	20	100.0	20	12	US-11-127-654-96
8	20	100.0	20	12	US-11-127-654-96
9	20	100.0	20	12	US-11-127-654-96
10	20	100.0	20	12	US-11-127-654-96
11	20	100.0	20	12	US-11-127-654-96
12	20	100.0	20	12	US-11-127-654-96
13	20	100.0	20	12	US-11-127-654-96
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16	20	100.0	20	12	US-11-127-654-96
17	20	100.0	20	12	US-11-127-654-96
18	20	100.0	20	12	US-11-127-654-96
19	20	100.0	20	12	US-11-127-654-96
20	20	100.0	20	12	US-11-127-654-96

21	16.8	84.0	21	12	US-11-127-654-915	Sequence 915, App
22	16.8	84.0	21	12	US-11-127-654-956	Sequence 956, App
23	16.8	84.0	655	6	US-09-925-065A-592670	Sequence 592670,
24	16.8	84.0	4224	12	US-11-136-527-2386	Sequence 2386, Ap
25	16.4	82.0	2091	8	US-10-955-054A-37	Sequence 37, Appl
26	16	80.0	20	12	US-11-127-654-475	Sequence 475, App
27	15.8	79.0	19	12	US-11-127-654-930	Sequence 930, App
28	15.8	79.0	19	12	US-11-127-654-931	Sequence 931, App
29	15.8	79.0	603	6	US-09-925-065A-531288	Sequence 531288,
30	15.8	79.0	656	6	US-09-925-065A-785514	Sequence 785514,
31	15.8	79.0	656	6	US-09-925-065A-845021	Sequence 845021,
32	15.8	79.0	2004	9	US-11-072-512-1222	Sequence 1222, Ap
33	15.4	77.0	19	8	US-10-497-591A-103	Sequence 103, App
34	15.4	77.0	607	6	US-09-925-065A-414201	Sequence 414201,
35	15.4	77.0	3387	7	US-10-932-182A-1894	Sequence 1894, Ap
36	15.4	77.0	3387	7	US-10-932-182A-1894	Sequence 1894, Ap
37	15.2	76.0	20	8	US-10-435-656-50	Sequence 50, Appl
38	15.2	76.0	20	12	US-11-127-654-531	Sequence 531, App
39	15.2	76.0	20	12	US-11-127-654-741	Sequence 741, App
40	15.2	76.0	20	12	US-11-134-918-50	Sequence 50, Appl
41	15.2	76.0	20	12	US-11-031-460-50	Sequence 50, Appl
42	15.2	76.0	20	12	US-11-067-587-50	Sequence 50, Appl
43	15.2	76.0	270	12	US-11-043-752-2597	Sequence 2597, Ap
44	15.2	76.0	620	6	US-09-925-065A-780825	Sequence 780825,
45	15.2	76.0	908	8	US-10-750-185-42783	Sequence 42783, A
46	15.2	76.0	908	8	US-10-750-185-42783	Sequence 42783, A
47	15.2	76.0	1479	8	US-10-750-185-53386	Sequence 53386, A
48	15.2	76.0	1479	8	US-10-750-185-53386	Sequence 53386, A
49	15.2	76.0	1587	8	US-10-858-730-160	Sequence 160, App
50	15.2	76.0	1884	8	US-10-750-185-55789	Sequence 55789, A
51	15.2	76.0	1884	8	US-10-750-622-55789	Sequence 55789, A
52	14.8	74.0	18	12	US-11-127-654-992	Sequence 992, App
53	14.8	74.0	597	6	US-09-925-065A-907591	Sequence 907591,
54	14.8	74.0	620	6	US-09-925-065A-456531	Sequence 456531,
55	14.8	74.0	626	6	US-09-925-065A-840034	Sequence 840034,
56	14.8	74.0	631	6	US-09-925-065A-408193	Sequence 408193,
57	14.8	74.0	631	6	US-09-925-065A-408193	Sequence 408193,
58	14.8	74.0	631	6	US-09-925-065A-408193	Sequence 408193,
59	14.8	74.0	749	6	US-09-925-065A-408195	Sequence 408195,
60	14.8	74.0	821	6	US-09-925-065A-952463	Sequence 952463,
61	14.8	74.0	981	9	US-11-096-568A-5946	Sequence 27956, A
62	14.8	74.0	1013	6	US-09-925-065A-38807	Sequence 38807, A
63	14.8	74.0	1013	6	US-09-925-065A-38808	Sequence 38808, A
64	14.8	74.0	1092	9	US-11-096-568A-92712	Sequence 19272, A
65	14.8	74.0	1334	8	US-10-750-185-63218	Sequence 63218, A
66	14.8	74.0	1334	8	US-10-750-623-63218	Sequence 63218, A
67	14.8	74.0	2788	12	US-11-124-368A-13	Sequence 13, Appl
68	14.8	74.0	19675	12	US-11-124-368A-2878	Sequence 2878, Ap
69	14.8	74.0	207835	12	US-11-121-086-39	Sequence 39, Appl
70	14.8	74.0	207835	12	US-11-121-086-40	Sequence 40, Appl
71	14.8	74.0	321019	8	US-10-995-561-13204	Sequence 13204, A
72	14.4	72.0	26	8	US-10-310-914A-1189107	Sequence 1189107,
73	14.4	72.0	534	6	US-09-925-065A-559905	Sequence 559905,
74	14.4	72.0	535	6	US-09-925-065A-513819	Sequence 513819,
75	14.4	72.0	535	6	US-09-925-065A-513820	Sequence 513820,
76	14.4	72.0	620	6	US-09-925-065A-456530	Sequence 456530,
77	14.4	72.0	630	6	US-09-925-065A-37201	Sequence 37201, A
78	14.4	72.0	1013	6	US-09-925-065A-38809	Sequence 38809, A
79	14.4	72.0	1102	9	US-11-096-568A-1631	Sequence 1631, Ap
80	14.4	72.0	1729	9	US-11-096-568A-20360	Sequence 20360, A
81	14.4	72.0	7129	12	US-11-136-527-1881	Sequence 1881, Ap
82	14.4	72.0	168516	12	US-11-121-086-3	Sequence 3, Appl
83	14.2	71.0	19	10	US-11-127-797-27	Sequence 27, Appl
84	14.2	71.0	19	10	US-11-127-803-27	Sequence 27, Appl
85	14.2	71.0	127	12	US-11-128-127-27	Sequence 27, Appl
86	14.2	71.0	127	12	US-11-128-127-27	Sequence 27, Appl
87	14.2	71.0	127	12	US-11-128-049-1879	Sequence 1879, Ap
88	14.2	71.0	179	7	US-10-893-483-86	Sequence 86, Appl
89	14.2	71.0	307	8	US-10-880-238-19	Sequence 19, Appl
90	14.2	71.0	307	8	US-10-880-238-20	Sequence 20, Appl
91	14.2	71.0	374	6	US-09-925-065A-231914	Sequence 231914,
92	14.2	71.0	374	6	US-09-925-065A-231915	Sequence 231915,
93	14.2	71.0	374	6	US-09-925-065A-231916	Sequence 231916,

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96 14.2 71.0 480 8 US-10-750-185-56571 Sequence 56571, A
97 14.2 71.0 480 8 US-10-750-623-56571 Sequence 56571, A
98 14.2 71.0 505 6 US-09-925-065A-613540 Sequence 613540,
99 14.2 71.0 505 6 US-09-925-065A-613541 Sequence 613541, A
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ALIGNMENTS

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RESULT 1
US-10-619-279-12
; Sequence 12, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; PRIOR FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-12
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Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20
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RESULT 2
US-10-435-656-12
; Sequence 12, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
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; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-12
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Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20
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RESULT 3
US-11-127-654-496
; Sequence 496, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039,70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 496
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-496
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Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20
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RESULT 4
US-11-127-654-740
; Sequence 740, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039,70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 740
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
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US-11-127-654-740

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
|||
DB 1 GGGGTCAACGTTGAGGGGG 20

RESULT 5

US-11-127-654-923

; Sequence: 923, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039, 7060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2003-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 923
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-923

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
|||
DB 1 GGGGTCAACGTTGAGGGGG 20

RESULT 6

US-11-134-918-12

; Sequence: 12, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klimman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; PRIOR FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-12

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
|||
DB 1 GGGGTCAACGTTGAGGGGG 20

RESULT 7

US-11-031-460-12

; Sequence: 12, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klimman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; PRIOR FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-12

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.23;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
|||
DB 1 GGGGTCAACGTTGAGGGGG 20

RESULT 8

US-11-067-587-12

; Sequence: 12, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klimman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; PRIOR FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652

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; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-12

Query Match
Best Local Similarity 100.0%; Score 20; DB 12; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
DB 1 GGGGTCAACGTTGAGGGGG 20

RESULT 9
US-11-127-654-957
; Sequence 957, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Krieg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 957
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-957

Query Match
Best Local Similarity 100.0%; Score 20; DB 12; Length 21;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
DB 2 GGGGTCAACGTTGAGGGGG 21

RESULT 10
US-11-127-654-495
; Sequence 495, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
```

```

; SEQ ID NO 495
; LENGTH: 24
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-495

Query Match
Best Local Similarity 100.0%; Score 20; DB 12; Length 24;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
DB 5 GGGGTCAACGTTGAGGGGG 24

RESULT 11
US-11-127-797-1
; Sequence 1, Application US/11127797
; Publication No. US20050245477A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/127,797
; PRIOR FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-797-1

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 10; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
DB 1 GGGGTCAACGTTGAGGGGG 20

RESULT 12
US-11-127-803-1
; Sequence 1, Application US/11127803
; Publication No. US20050244379A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/127,803
; PRIOR FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
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```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-803-1

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 10; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 13
US-11-128-127-1
; Sequence 1, Application US/11128127
; Publication No. US20050244380A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/128,127
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-128-127-1

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 10; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 14
US-11-127-654-348
; Sequence 348, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 348
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
```

```

US-11-127-654-348

Query Match
Best Local Similarity 84.0%; Score 16.8; DB 12; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 15
US-11-127-654-878
; Sequence 878, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 878
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-878

Query Match
Best Local Similarity 84.0%; Score 16.8; DB 12; Length 20;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 16
US-11-127-654-924
; Sequence 924, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 924
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-924

Query Match
Best Local Similarity 84.0%; Score 16.8; DB 12; Length 20;
```

Best Local Similarity 90.0%; Pred. No. 13;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 17
US-11-127-654-933

; Sequence 933, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

; FILE REFERENCE: C1039.70060US01

; CURRENT APPLICATION NUMBER: US/11/127,654

; PRIOR FILING DATE: 2005-05-12

; PRIOR FILING DATE: 2002-03-29

; PRIOR FILING DATE: 2001-03-29

; NUMBER OF SEQ ID NOS: 1040

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 933

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

US-11-127-654-933

; Sequence 1038, Application US/11127654

; Publication No. US20050250726A1

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

; FILE REFERENCE: C1039.70060US01

; CURRENT APPLICATION NUMBER: US/11/127,654

; PRIOR FILING DATE: 2005-05-12

; PRIOR FILING DATE: 2002-03-29

; PRIOR FILING DATE: 2001-03-29

; NUMBER OF SEQ ID NOS: 1040

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 1038

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

Qy 1 GGGGTCAACGTTGAGGGGG 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 19
US-11-127-654-1040

; Sequence 1040, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

; FILE REFERENCE: C1039.70060US01

; CURRENT APPLICATION NUMBER: US/11/127,654

; PRIOR FILING DATE: 2005-05-12

; PRIOR FILING DATE: 2002-03-29

; PRIOR FILING DATE: 2001-03-29

; NUMBER OF SEQ ID NOS: 1040

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 1040

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

US-11-127-654-908

; Sequence 908, Application US/11127654

; Publication No. US20050250726A1

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

; FILE REFERENCE: C1039.70060US01

; CURRENT APPLICATION NUMBER: US/11/127,654

; PRIOR FILING DATE: 2005-05-12

; PRIOR FILING DATE: 2002-03-29

; PRIOR FILING DATE: 2001-03-29

; NUMBER OF SEQ ID NOS: 1040

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 908

; LENGTH: 21

; TYPE: DNA

; ORGANISM: Artificial sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

Qy 1 GGGGTCAACGTTGAGGGGG 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 GGGGTCAACGTTGAGGGGG 20

Query Match 84.0%; Score 16.8; DB 12; Length 21;
Best Local Similarity 90.0%; Pred. No. 13;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
| | | | | | | | | | | | | | | | | | | | | |
Db 1 GGGGTCAACGTTGAGGGGG 20

US-11-127-654-908

; Sequence 908, Application US/11127654

; Publication No. US20050250726A1

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

; FILE REFERENCE: C1039.70060US01

; CURRENT APPLICATION NUMBER: US 10/112,653

; PRIOR FILING DATE: 2005-05-12

; PRIOR FILING DATE: 2002-03-29

; PRIOR FILING DATE: 2001-03-29

; NUMBER OF SEQ ID NOS: 1040

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 908

; LENGTH: 21

; TYPE: DNA

; ORGANISM: Artificial sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

US-11-127-654-908

; Sequence 908, Application US/11127654

; Publication No. US20050250726A1

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

; FILE REFERENCE: C1039.70060US01

; CURRENT APPLICATION NUMBER: US 10/112,653

; PRIOR FILING DATE: 2005-05-12

; PRIOR FILING DATE: 2002-03-29

; PRIOR FILING DATE: 2001-03-29

; NUMBER OF SEQ ID NOS: 1040

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 908

; LENGTH: 21

; TYPE: DNA

; ORGANISM: Artificial sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

RESULT 21
US-11-127-654-915
; Sequence 915, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Krieg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.7060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 915
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-915

Query Match 84.0%; Score 16.8; DB 12; Length 21;
Best Local Similarity 90.0%; Pred. No. 13;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAATCATGAGGGGG 20

RESULT 22
US-11-127-654-956
; Sequence 956, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Krieg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.7060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 956
; LENGTH: 21
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-956

Query Match 84.0%; Score 16.8; DB 12; Length 21;
Best Local Similarity 90.0%; Pred. No. 13;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 2 GGGGTCAATCATGAGGGGG 21

RESULT 23

US-09-925-065A-592670
; Sequence 592670, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; PRIOR FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 592670
; LENGTH: 655
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-592670

Query Match 84.0%; Score 16.8; DB 6; Length 655;
Best Local Similarity 90.0%; Pred. No. 19;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 310 GGGGTCAACGTTGAGCGTG 329

RESULT 24
US-11-136-527-2386/C
; Sequence 2386, Application US/11136527
; Publication No. US20050287570A1
; GENERAL INFORMATION:
; APPLICANT: Wyeth
; APPLICANT: Mounts, William M
; TITLE OF INVENTION: Probe Arrays for Expression Profiling of Rat Genes
; FILE REFERENCE: 031896-041000 (AM101086)
; CURRENT APPLICATION NUMBER: US/11/136,527
; PRIOR FILING DATE: 2005-05-25
; PRIOR APPLICATION NUMBER: US 60/574,294
; PRIOR FILING DATE: 2005-05-26
; NUMBER OF SEQ ID NOS: 362830
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 2386
; LENGTH: 4224
; TYPE: DNA
; ORGANISM: Rattus norvegicus
US-11-136-527-2386

Query Match 84.0%; Score 16.8; DB 12; Length 4224;
Best Local Similarity 90.0%; Pred. No. 22;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1254 GGGGTCAACGTTGAGCGCG 1235

RESULT 25
US-10-955-054A-37
; Sequence 37, Application US/10955054A
; Publication No. US20050266420A1
; GENERAL INFORMATION:
; APPLICANT: PUSZTAI, LAJOS

```

; APPLICANT: SYMMANS, W. FRASER
; APPLICANT: HESS, KENNETH R.
; APPLICANT: AYERS, MARK
; APPLICANT: STEC, JAMES
; TITLE OF INVENTION: MULTIGENE PREDICTORS OF RESPONSE TO CHEMOTHERAPY
; FILE REFERENCE: UTXC:880US
; CURRENT APPLICATION NUMBER: US/10/955,054A
; NUMBER OF SEQ ID NOS: 195
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 37
; LENGTH: 2091
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-955-054A-37

Query Match          82.0%; Score 16.4; DB 8; Length 2091;
Best Local Similarity 94.4%; Pred. No. 34;
Matches 17; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      2 GGGTCACGTTGAGGGGG 19
      |||||
Db      106 GGGTCACGTTGAGGGGG 123

RESULT 26
US-11-127-654-475
; Sequence 475, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 475
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-475

Query Match          80.0%; Score 16; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 35;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      5 TCAACGTTGAGGGGG 20
      |||||
Db      5 TCAACGTTGAGGGGG 20

RESULT 27
US-11-127-654-930
; Sequence 930, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
```

```

; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 930
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-930

Query Match          79.0%; Score 15.8; DB 12; Length 19;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      2 GGGTCACGTTGAGGGGG 20
      |||||
Db      1 GGGTCACGTCGAGGGGG 19

RESULT 28
US-11-127-654-931
; Sequence 931, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 931
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-931

Query Match          79.0%; Score 15.8; DB 12; Length 19;
Best Local Similarity 89.5%; Pred. No. 45;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1 GGGTCACGTTGAGGGGG 19
      |||||
Db      1 GGGTCACGTCGAGGGGG 19

RESULT 29
US-09-925-065A-531288/c
; Sequence 531288, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
```

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; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 531288
; LENGTH: 603
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-531288

Query Match
Best Local Similarity 79.0%; Score 15.8; DB 6; Length 603;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 GGGTCAACGTTGAGGGGG 20
Db 558 GGGTCAACGTTGAGGGGG 540

RESULT 30
US-09-925-065A-785514/c
; Sequence 785514, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 785514
; LENGTH: 656
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-785514

Query Match
Best Local Similarity 79.0%; Score 15.8; DB 6; Length 656;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCAACGTTGAGGGGG 19
Db 647 GGGTCAACGTTGAGGGGG 629

RESULT 31
US-09-925-065A-845021/c
; Sequence 845021, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
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```

; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 845021
; LENGTH: 656
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-845021

Query Match
Best Local Similarity 79.0%; Score 15.8; DB 6; Length 656;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGTCAACGTTGAGGGGG 19
Db 647 GGGTCAACGTTGAGGGGG 629

RESULT 32
US-11-072-512-1222
; Sequence 1222, Application US/11072512
; Publication No. US20060029945A1
; GENERAL INFORMATION:
; APPLICANT: ISOGAI, TAYAO
; APPLICANT: SUGIYAMA, TOMOYASU
; APPLICANT: OTSUKI, TETSUJI
; APPLICANT: WAKAMATSU, AI
; APPLICANT: SATO, HIROYUKI
; APPLICANT: ISHII, SHIZUKO
; APPLICANT: YAMAMOTO, JUN-ICHI
; APPLICANT: ISONO, YUUKO
; APPLICANT: HIO, YURI
; APPLICANT: OTSUKA, KAORU
; APPLICANT: NAGAI, KEIICHI
; APPLICANT: IRIE, RYOTARO
; APPLICANT: TAMECHIKA, ICHIRO
; APPLICANT: SEKI, NAOHIKO
; APPLICANT: YOSHIKAWA, TSUTOMU
; APPLICANT: OTSUKA, MOTOKYUKI
; APPLICANT: NAGAHARI, KENJI
; APPLICANT: MASUHO, YASUHIKO
; TITLE OF INVENTION: Novel full length cDNA
; FILE REFERENCE: 084335-0191
; CURRENT APPLICATION NUMBER: US/11/072,512
; CURRENT FILING DATE: 2005-03-07
; PRIOR APPLICATION NUMBER: US 60/350,978
; PRIOR FILING DATE: 2002-01-25
; PRIOR APPLICATION NUMBER: JP 2001-379298
; PRIOR FILING DATE: 2001-11-05
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1222
; LENGTH: 2004
; TYPE: DNA
; ORGANISM: Homo sapiens
US-11-072-512-1222

Query Match
Best Local Similarity 79.0%; Score 15.8; DB 9; Length 2004;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 GGGTCAACGTTGAGGGGG 20
Db 732 GGGTCAACGTTGAGGGGG 750
```

```
RESULT 33
US-10-497-591A-103
; Sequence 103, Application US/10497591A
; Publication No. US20050250716A1
; GENERAL INFORMATION:
; APPLICANT: SCHMIDT, WALTER
; APPLICANT: SCHELLACK, CAROLA
; APPLICANT: EGYED, ALENA
; APPLICANT: LINGNAU, KAREN
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
; FILE REFERENCE: SONN:045US
; CURRENT APPLICATION NUMBER: US/10/497,591A
; PRIOR FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 103
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; NAME/KEY: modified base
; LOCATION: (10)..(16)
US-10-497-591A-103
```

```
Query Match          77.0%; Score 15.4; DB 8; Length 19;
Best Local Similarity 84.2%; Pred. No. 75;
Matches 16; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
```

```
QY 1 GGGGTCAAGCTTGAGGGG 19
DB 1 GGGGTCAAGCTTGAGGGG 19
```

```
RESULT 34
US-09-925-065A-414201
; Sequence 414201, Application US/09925065A
; Publication No. US20040181048A1
; GENERAL INFORMATION:
; APPLICANT: Wang, David G.
; TITLE OF INVENTION: Identification and Mapping of Single
; FILE REFERENCE: 108827.135
; CURRENT APPLICATION NUMBER: US/09/925,065A
; CURRENT FILING DATE: 2001-08-08
; PRIOR APPLICATION NUMBER: US 60/243,096
; PRIOR FILING DATE: 2000-10-24
; PRIOR APPLICATION NUMBER: US 60/252,147
; PRIOR FILING DATE: 2000-11-20
; PRIOR APPLICATION NUMBER: US 60/250,092
; PRIOR FILING DATE: 2000-11-30
; PRIOR APPLICATION NUMBER: US 60/261,766
; PRIOR FILING DATE: 2001-01-16
; PRIOR APPLICATION NUMBER: US 60/289,846
; PRIOR FILING DATE: 2001-05-09
; NUMBER OF SEQ ID NOS: 957086
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 414201
; LENGTH: 607
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-925-065A-414201
```

```
Query Match          77.0%; Score 15.4; DB 6; Length 607;
Best Local Similarity 94.1%; Pred. No. 1.1e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1 GGGGTCAAGCTTGAGGG 17
DB 119 GGGGTCAAGCTTGAGGG 135
```

```
RESULT 35
US-10-932-182A-1894/c
; Sequence 1894, Application US/10932182A
; Publication No. US20060046253A1
; GENERAL INFORMATION:
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHISA
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: 030685-043
; CURRENT APPLICATION NUMBER: US/10/932,182A
; CURRENT FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 197023
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1894
; LENGTH: 3387
; TYPE: DNA
; ORGANISM: Saccharomyces pastorianus
US-10-932-182A-1894
```

```
Query Match          77.0%; Score 15.4; DB 7; Length 3387;
Best Local Similarity 94.1%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 3 GGTCACGTTGAGGGG 19
DB 3162 GGACACGTTGAGGGG 3146
```

```
RESULT 36
US-10-932-182A-1894/c
; Sequence 1894, Application US/10932182A
; Publication No. US20060046253A1
; GENERAL INFORMATION:
; APPLICANT: NAKAO, YOSHIHIRO
; APPLICANT: NAKAMURA, NORIHISA
; APPLICANT: KODAMA, YUKIKO
; APPLICANT: FUJIMURA, TOMOKO
; APPLICANT: ASHIKARI, TOSHIHIKO
; TITLE OF INVENTION: METHODS FOR ANALYZING GENES OF INDUSTRIAL YEASTS
; FILE REFERENCE: 030685-043
; CURRENT APPLICATION NUMBER: US/10/932,182A
; CURRENT FILING DATE: 2004-09-02
; NUMBER OF SEQ ID NOS: 197023
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 1894
; LENGTH: 3387
; TYPE: DNA
; ORGANISM: Saccharomyces pastorianus
US-10-932-182A-1894
```

```
Query Match          77.0%; Score 15.4; DB 7; Length 3387;
Best Local Similarity 94.1%; Pred. No. 1.3e+02;
Matches 16; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 3 GGTCACGTTGAGGGG 19
DB 3162 GGACACGTTGAGGGG 3146
```

```
RESULT 37
US-10-435-656-50
; Sequence 50, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
```

```

; APPLICANT: Kline, Joel N.
; APPLICANT: Klimman, Dennis
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 50
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-50

Query Match      76.0%; Score 15.2; DB 8; Length 20;
Best Local Similarity 85.0%; Pred. No. 96;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 GGGGTCAACGTTGAGGGGG 20
DB 1 GGGGTCAAGTCTGAGGGGG 20

RESULT 38
US-11-127-654-531
; Sequence 531, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.7060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 531
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-531

Query Match      76.0%; Score 15.2; DB 12; Length 20;
Best Local Similarity 85.0%; Pred. No. 96;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 GGGGTCAACGTTGAGGGGG 20
DB 1 GGGGTAAATCGATGAGGGGG 20

RESULT 39
US-11-127-654-741
; Sequence 741, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
```

```

; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.7060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 741
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-741

Query Match      76.0%; Score 15.2; DB 12; Length 20;
Best Local Similarity 85.0%; Pred. No. 96;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 GGGGTCAACGTTGAGGGGG 20
DB 1 GGGGTCAAGTCTGAGGGGG 20

RESULT 40
US-11-134-918-50
; Sequence 50, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klimman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 50
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-50

Query Match      76.0%; Score 15.2; DB 12; Length 20;
Best Local Similarity 85.0%; Pred. No. 96;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 1 GGGGTCAACGTTGAGGGGG 20
DB 1 GGGGTCAAGTCTGAGGGGG 20

Search completed: March 8, 2006, 21:10:40
Job time : 310.113 secs
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 19:48:19 ; Search time 419.057 Seconds

(without alignments)
394.666 Million cell updates/sec

Title: US-09-337-584-12

Perfect score: 20

Sequence: 1 ggggtcaacgttgagggggg 20

Scoring table: IDENTITY_NUC

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Published Applications NA Main:*

- 1: /cgn2_6/ptodata/1/pubphn/US07_PUBCOMB.seq:*
- 2: /cgn2_6/ptodata/1/pubphn/US08_PUBCOMB.seq:*
- 3: /cgn2_6/ptodata/1/pubphn/US09A_PUBCOMB.seq:*
- 4: /cgn2_6/ptodata/1/pubphn/US09B_PUBCOMB.seq:*
- 5: /cgn2_6/ptodata/1/pubphn/US10A_PUBCOMB.seq:*
- 6: /cgn2_6/ptodata/1/pubphn/US10B_PUBCOMB.seq:*
- 7: /cgn2_6/ptodata/1/pubphn/US10C_PUBCOMB.seq:*
- 8: /cgn2_6/ptodata/1/pubphn/US10D_PUBCOMB.seq:*
- 9: /cgn2_6/ptodata/1/pubphn/US10E_PUBCOMB.seq:*
- 10: /cgn2_6/ptodata/1/pubphn/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	3	US-09-888-326-436
2	20	100.0	20	3	US-09-888-326-437
3	20	100.0	20	3	US-09-818-918-12
4	20	100.0	20	3	US-09-776-479-519
5	20	100.0	20	3	US-09-776-479-767
6	20	100.0	20	3	US-09-776-479-968
7	20	100.0	20	3	US-09-776-479-969
8	20	100.0	20	3	US-09-967-464-3
9	20	100.0	20	3	US-09-776-479-519
10	20	100.0	20	3	US-09-776-479-767
11	20	100.0	20	3	US-09-776-479-968
12	20	100.0	20	3	US-09-776-479-969
13	20	100.0	20	3	US-09-965-101-52
14	20	100.0	20	3	US-09-965-101-59
15	20	100.0	20	5	US-10-112-653-496
16	20	100.0	20	5	US-10-112-653-740
17	20	100.0	20	5	US-10-112-653-923
18	20	100.0	20	5	US-10-017-995-519
19	20	100.0	20	5	US-10-017-995-767
20	20	100.0	20	5	US-10-017-995-968
21	20	100.0	20	5	US-10-017-995-969
22	20	100.0	20	5	US-10-161-229-47
23	20	100.0	20	6	US-10-194-035-89

24	20	100.0	20	6	US-10-224-523-35	Sequence 35, Appl
25	20	100.0	20	6	US-10-187-264-12	Sequence 12, Appl
26	20	100.0	20	6	US-10-306-522-12	Sequence 12, Appl
27	20	100.0	20	6	US-10-314-578-519	Sequence 519, Appl
28	20	100.0	20	6	US-10-314-578-767	Sequence 767, Appl
29	20	100.0	20	6	US-10-314-578-968	Sequence 968, Appl
30	20	100.0	20	6	US-10-314-578-969	Sequence 969, Appl
31	20	100.0	20	6	US-10-455-247-3	Sequence 3, Appl
32	20	100.0	20	7	US-10-719-493-12	Sequence 12, Appl
33	20	100.0	20	7	US-10-627-331-12	Sequence 12, Appl
34	20	100.0	20	7	US-10-743-625-12	Sequence 12, Appl
35	20	100.0	20	7	US-10-679-710-12	Sequence 12, Appl
36	20	100.0	20	7	US-10-769-282-12	Sequence 12, Appl
37	20	100.0	20	8	US-10-817-165-12	Sequence 12, Appl
38	20	100.0	20	8	US-10-877-407-30	Sequence 30, Appl
39	20	100.0	20	8	US-10-831-778-519	Sequence 519, Appl
40	20	100.0	20	8	US-10-831-778-767	Sequence 767, Appl
41	20	100.0	20	8	US-10-831-778-968	Sequence 968, Appl
42	20	100.0	20	8	US-10-831-778-969	Sequence 969, Appl
43	20	100.0	20	8	US-10-486-755-14	Sequence 14, Appl
44	20	100.0	20	8	US-10-789-758-4	Sequence 4, Appl
45	20	100.0	20	8	US-10-847-642-12	Sequence 12, Appl
46	20	100.0	20	8	US-10-838-659-52	Sequence 52, Appl
47	20	100.0	20	8	US-10-838-659-59	Sequence 59, Appl
48	20	100.0	20	8	US-10-888-785-12	Sequence 12, Appl
49	20	100.0	20	9	US-10-888-449-12	Sequence 12, Appl
50	20	100.0	20	9	US-10-894-862-30	Sequence 30, Appl
51	20	100.0	20	9	US-10-894-657-30	Sequence 30, Appl
52	20	100.0	20	9	US-10-884-852-12	Sequence 12, Appl
53	20	100.0	20	9	US-10-613-916-12	Sequence 12, Appl
54	20	100.0	20	9	US-10-627-413-12	Sequence 12, Appl
55	20	100.0	20	9	US-10-921-086-12	Sequence 12, Appl
56	20	100.0	20	9	US-10-928-762-12	Sequence 12, Appl
57	20	100.0	20	9	US-10-987-146-12	Sequence 12, Appl
58	20	100.0	20	9	US-10-484-991-60	Sequence 60, Appl
59	20	100.0	20	9	US-10-972-301-30	Sequence 30, Appl
60	20	100.0	20	9	US-10-831-647-12	Sequence 12, Appl
61	20	100.0	20	9	US-10-936-494-12	Sequence 12, Appl
62	20	100.0	20	9	US-10-956-745-12	Sequence 12, Appl
63	20	100.0	20	10	US-11-056-463-1	Sequence 1, Appl
64	20	100.0	20	10	US-11-056-463-135	Sequence 135, Appl
65	20	100.0	20	10	US-11-036-527-12	Sequence 12, Appl
66	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
67	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
68	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
69	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
70	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
71	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
72	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
73	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
74	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
75	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
76	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
77	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
78	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
79	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
80	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
81	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
82	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
83	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
84	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
85	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
86	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
87	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
88	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
89	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
90	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
91	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
92	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
93	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
94	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
95	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl
96	20	100.0	20	10	US-11-071-836-12	Sequence 12, Appl

97	18.4	92.0	20	8	US-10-649-584-1	Sequence 1, Appli
98	18.4	92.0	20	10	US-11-067-516-1	Sequence 1, Appli
99	17.4	87.0	19	3	US-09-824-468-52	Sequence 52, Appl
100	17.4	87.0	19	3	US-09-800-266A-46	Sequence 46, Appl

ALIGNMENTS

RESULT 1

```
US-09-888-326-436
; Sequence 436, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AMS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 436
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: chimeric phosphorothioate/phosphodiester backbone
; OTHER INFORMATION: with phosphorothioate at 5' and 3' ends
US-09-888-326-436
```

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 2

```
US-09-888-326-437
; Sequence 437, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AMS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 437
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: phosphorothioate backbone
US-09-888-326-437
```

Query Match	100.0%;	Score 20;	DB 3;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 4;		
Matches 20;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 3

```
US-09-818-918-12
; Sequence 12, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Klieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-12
```

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 4

```
US-09-776-479-519
; Sequence 519, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 519
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-519
```

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
|||||
1 GGGGTCAACGTTGAGGGGG 20

RESULT 5
US-09-776-479-767

; Sequence 767, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 767
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-767

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
|||||
1 GGGGTCAACGTTGAGGGGG 20

RESULT 6
US-09-776-479-968

; Sequence 968, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 968
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-968

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 GGGGTCAACGTTGAGGGGG 20
|||||

DB 1 GGGGTCAACGTTGAGGGGG 20

RESULT 7
US-09-776-479-969

; Sequence 969, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 969
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-969

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
|||||
1 GGGGTCAACGTTGAGGGGG 20

RESULT 8
US-09-967-464-3

; Sequence 3, Application US/09967464
; Publication No. US20030138453A1
; GENERAL INFORMATION:
; APPLICANT: O'Hagan, Derek
; APPLICANT: Otten, Gillis
; APPLICANT: Donnelly, John J.
; APPLICANT: Polo, John M.
; APPLICANT: Barnett, Susan
; APPLICANT: Singh, Manohan
; APPLICANT: Uimer, Jeffrey
; APPLICANT: Dubensky, Jr., Thomas W.
; TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF HETEROLOGOUS NUCLEIC ACIDS
; FILE REFERENCE: P16269.004
; CURRENT APPLICATION NUMBER: US/09/967,464
; PRIOR FILING DATE: 2002-04-11
; PRIOR APPLICATION NUMBER: 60/236,105
; PRIOR FILING DATE: 2000-09-28
; PRIOR APPLICATION NUMBER: 60/315,905
; PRIOR FILING DATE: 2001-08-30
; NUMBER OF SEQ ID NOS: 68
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Artificial sequence is synthesized
US-09-967-464-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
1 GGGGTCAACGTTGAGGGGG 20

Db 1 GGGGTCAACGTTGAGGGGGG 20

RESULT 9

US-09-776-479-519
; Sequence 519, Application US/09776479
; Publication No. US20040067902A9
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 519
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-519

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGGG 20

RESULT 10

US-09-776-479-767
; Sequence 767, Application US/09776479
; Publication No. US20040067902A9
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 767
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-767

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGGG 20

RESULT 11

US-09-776-479-968
; Sequence 968, Application US/09776479
; Publication No. US20040067902A9
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 968
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-968

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGGG 20

RESULT 12
US-09-776-479-969
; Sequence 969, Application US/09776479
; Publication No. US20040067902A9
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 969
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-969

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGGG 20

RESULT 13

US-09-965-101-52
; Sequence 52, Application US/09965101
; Publication No. US20040186067A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.

APPLICANT: Krieg, Arthur M.
 APPLICANT: Schorr, Joachim
 APPLICANT: Wu, Tong
 TITLE OF INVENTION: Vectors and Methods for Immunization or
 TITLE OF INVENTION: Therapeutic Protocols
 FILE REFERENCE: C1039/7057 (HCL/MAT)
 CURRENT APPLICATION NUMBER: US/09/965,101
 PRIOR FILING DATE: 2001-09-26
 PRIOR APPLICATION NUMBER: US 09/082,649
 PRIOR FILING DATE: 1998-05-20
 PRIOR APPLICATION NUMBER: US 60/047,233
 PRIOR FILING DATE: 1997-05-20
 PRIOR APPLICATION NUMBER: US 60/047,209
 PRIOR FILING DATE: 1997-05-20
 NUMBER OF SEQ ID NOS: 84
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 52
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: synthetic oligonucleotide
 NAME/KEY: misc_feature
 LOCATION: (0)...(0)
 OTHER INFORMATION: Has a phosphorothioate backbone.
 US-09-965-101-52

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 4;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GGGGTCAACGTTGAGGGGG 20
 Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 14
 US-09-965-101-59
 Sequence 59, Application US/09965101
 Publication No. US20040186067A1
 GENERAL INFORMATION:
 APPLICANT: Davis, Heather L.
 APPLICANT: Krieg, Arthur M.
 APPLICANT: Schorr, Joachim
 APPLICANT: Wu, Tong
 TITLE OF INVENTION: Vectors and Methods for Immunization or
 TITLE OF INVENTION: Therapeutic Protocols
 FILE REFERENCE: C1039/7057 (HCL/MAT)
 CURRENT APPLICATION NUMBER: US/09/965,101
 PRIOR FILING DATE: 2001-09-26
 PRIOR APPLICATION NUMBER: US 09/082,649
 PRIOR FILING DATE: 1998-05-20
 PRIOR APPLICATION NUMBER: US 60/047,233
 PRIOR FILING DATE: 1997-05-20
 PRIOR APPLICATION NUMBER: US 60/047,209
 PRIOR FILING DATE: 1997-05-20
 NUMBER OF SEQ ID NOS: 84
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 59
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: synthetic oligonucleotide
 NAME/KEY: misc_feature
 LOCATION: (0)...(0)
 OTHER INFORMATION: Has SOS-ODN backbone with two S-linkages at the 5',
 OTHER INFORMATION: end, five S-linkages at the 3' end, and O-linkages
 OTHER INFORMATION: in between.
 US-09-965-101-59

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 4;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Oy 1 GGGGTCAACGTTGAGGGGG 20
 Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 15
 US-10-112-653-496
 Sequence 496, Application US/10112653
 Publication No. US20030050268A1
 GENERAL INFORMATION:
 APPLICANT: Krieg, Arthur M.
 APPLICANT: Berg, Daniel J.
 TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
 TITLE OF INVENTION: TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES
 FILE REFERENCE: C01039/70060(AWS)
 CURRENT APPLICATION NUMBER: US/10/112,653
 CURRENT FILING DATE: 2002-03-29
 PRIOR APPLICATION NUMBER: US 60/279,642
 PRIOR FILING DATE: 2001-03-29
 NUMBER OF SEQ ID NOS: 1040
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 496
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic Oligonucleotide
 US-10-112-653-496

Query Match 100.0%; Score 20; DB 5; Length 20;
 Best Local Similarity 100.0%; Pred. No. 4;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GGGGTCAACGTTGAGGGGG 20
 Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 16
 US-10-112-653-740
 Sequence 740, Application US/10112653
 Publication No. US20030050268A1
 GENERAL INFORMATION:
 APPLICANT: Krieg, Arthur M.
 APPLICANT: Berg, Daniel J.
 TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
 TITLE OF INVENTION: TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES
 FILE REFERENCE: C01039/70060(AWS)
 CURRENT APPLICATION NUMBER: US/10/112,653
 CURRENT FILING DATE: 2002-03-29
 PRIOR APPLICATION NUMBER: US 60/279,642
 PRIOR FILING DATE: 2001-03-29
 NUMBER OF SEQ ID NOS: 1040
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 740
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic Oligonucleotide
 US-10-112-653-740

Query Match 100.0%; Score 20; DB 5; Length 20;
 Best Local Similarity 100.0%; Pred. No. 4;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 GGGGTCAACGTTGAGGGGG 20
 Db 1 GGGGTCAACGTTGAGGGGG 20

```
RESULT 17
US-10-112-653-923
; Sequence 923, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; TITLE OF INVENTION: TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES
; FILE REFERENCE: C01039/70060(LAMS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 923
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-923

Query Match          100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGGGTCAACGTTGAGGGGG 20
        |||||||
DB      1 GGGGTCAACGTTGAGGGGG 20

RESULT 18
US-10-017-995-519
; Sequence 519, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 519
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-519

Query Match          100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGGGTCAACGTTGAGGGGG 20
        |||||||
DB      1 GGGGTCAACGTTGAGGGGG 20

RESULT 19
US-10-017-995-767
; Sequence 767, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 995
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-767

Query Match          100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 767
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-767

Query Match          100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGGGTCAACGTTGAGGGGG 20
        |||||||
DB      1 GGGGTCAACGTTGAGGGGG 20

RESULT 20
US-10-017-995-968
; Sequence 968, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 968
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-968

Query Match          100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 GGGGTCAACGTTGAGGGGG 20
        |||||||
DB      1 GGGGTCAACGTTGAGGGGG 20

RESULT 21
US-10-017-995-969
; Sequence 969, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 969
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-969

Query Match          100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

US-10-017-995-969

Query Match 100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 22

US-10-161-229-47

; Sequence 47, Application US/10161229
; Publication No. US20030100527A1
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules for
; TITLE OF INVENTION: Activating Dendritic Cells
; FILE REFERENCE: C01039/70061
; CURRENT APPLICATION NUMBER: US/10/161,229
; PRIOR FILING DATE: 2002-06-03
; PRIOR APPLICATION NUMBER: US 09/191,170
; PRIOR FILING DATE: 1998-11-13
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-161-229-47

Query Match 100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 23

US-10-194-035-89

; Sequence 89, Application US/10194035
; Publication No. US20030144229A1
; GENERAL INFORMATION:
; APPLICANT: THE GOVERNMENT OF THE UNITED STATES OF AMERICA AS REPRESENTED BY THE
; APPLICANT: SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES
; APPLICANT: KLINMAN, Dennis
; APPLICANT: ISHII, Ken
; APPLICANT: VERTHELYI, Daniela
; TITLE OF INVENTION: OLIGODEOXYNUCLEOTIDE AND ITS USE TO INDUCE AN IMMUNE RESPONSE
; FILE REFERENCE: 4239-63317
; CURRENT APPLICATION NUMBER: US/10/194,035
; PRIOR FILING DATE: 2002-07-12
; PRIOR APPLICATION NUMBER: PCT/US01/01122
; PRIOR FILING DATE: 2001-07-19
; PRIOR APPLICATION NUMBER: US 60/176,115
; PRIOR FILING DATE: 2000-01-14
; NUMBER OF SEQ ID NOS: 119
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 89

; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic DNA
US-10-194-035-89

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 24

US-10-224-523-35

; Sequence 35, Application US/10224523
; Publication No. US20030148976A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: Combination Motif Immune Stimulatory Oligonucleotides with Impro
; TITLE OF INVENTION: Activity
; FILE REFERENCE: C01039/70063 (HCL/AMS)
; CURRENT APPLICATION NUMBER: US/10/224,523
; PRIOR FILING DATE: 2002-08-19
; PRIOR APPLICATION NUMBER: US 60/313,273
; PRIOR FILING DATE: 2001-08-17
; PRIOR APPLICATION NUMBER: US 60/393,952
; PRIOR FILING DATE: 2002-07-03
; NUMBER OF SEQ ID NOS: 81
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-224-523-35

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 25

US-10-187-264A-12

; Sequence 12, Application US/10187264A
; Publication No. US20030162734A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: KLINMAN, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; TITLE OF INVENTION: Infectious Disease
; FILE REFERENCE: C01039,70062.US
; CURRENT APPLICATION NUMBER: US/10/187,264A
; PRIOR FILING DATE: 2002-06-28
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07

```
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-187-264A-12
```

```
Query Match          100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGGGTCAACGTTGAGGGGGG 20
        |||
Db       1 GGGGTCAACGTTGAGGGGGG 20
```

```
RESULT 26
US-10-306-522-12
; Sequence 12, Application US/10306522
; Publication No. US20030191079A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; TITLE OF INVENTION: Infectious Disease
; FILE REFERENCE: C01039,70062,US
; CURRENT APPLICATION NUMBER: US/10/306,522
; CURRENT FILING DATE: 2002-11-27
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-306-522-12
```

```
Query Match          100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGGGTCAACGTTGAGGGGGG 20
        |||
Db       1 GGGGTCAACGTTGAGGGGGG 20
```

```
RESULT 27
US-10-314-578-519
; Sequence 519, Application US/10314578
; Publication No. US20030212026A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schetter, Christian
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
```

```
; CURRENT APPLICATION NUMBER: US/10/314,578
; CURRENT FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-25
; PRIOR APPLICATION NUMBER: US 60/156,135
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 60/227,436
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 519
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-314-578-519
```

```
Query Match          100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGGGTCAACGTTGAGGGGGG 20
        |||
Db       1 GGGGTCAACGTTGAGGGGGG 20
```

```
RESULT 28
US-10-314-578-767
; Sequence 767, Application US/10314578
; Publication No. US20030212026A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schetter, Christian
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/314,578
; CURRENT FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-25
; PRIOR APPLICATION NUMBER: US 60/156,135
; PRIOR FILING DATE: 1999-09-27
; PRIOR APPLICATION NUMBER: US 60/227,436
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 767
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-314-578-767
```

```
Query Match          100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGGGTCAACGTTGAGGGGGG 20
        |||
Db       1 GGGGTCAACGTTGAGGGGGG 20
```

```
RESULT 29
US-10-314-578-968
; Sequence 968, Application US/10314578
; Publication No. US20030212026A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schetter, Christian
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
```

```
FILE REFERENCE: C1039/7035 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/10/314,578
CURRENT FILING DATE: 2002-12-09
PRIOR APPLICATION NUMBER: US 60/156,113
PRIOR FILING DATE: 1999-09-25
PRIOR APPLICATION NUMBER: US 60/156,135
PRIOR FILING DATE: 1999-09-27
PRIOR APPLICATION NUMBER: US 60/227,436
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 1145
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 968
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-10-314-578-968

Query Match
Best Local Similarity 100.0%; Score 20; DB 6; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 30
US-10-314-578-969
Sequence 969, Application US/10314578
Publication No. US20030212026A1
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
APPLICANT: Schelter, Christian
APPLICANT: Vollmer, Jorg
TITLE OF INVENTION: Immunostimulatory Nucleic Acids
FILE REFERENCE: C1039/7035 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/10/314,578
CURRENT FILING DATE: 2002-12-09
PRIOR APPLICATION NUMBER: US 60/156,113
PRIOR FILING DATE: 1999-09-25
PRIOR APPLICATION NUMBER: US 60/156,135
PRIOR FILING DATE: 1999-09-27
PRIOR APPLICATION NUMBER: US 60/227,436
PRIOR FILING DATE: 2000-08-23
NUMBER OF SEQ ID NOS: 1145
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 969
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-10-314-578-969

Query Match
Best Local Similarity 100.0%; Score 20; DB 6; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 31
US-10-455-247-3
Sequence 3, Application US/10455247
Publication No. US20040009949A1
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
TITLE OF INVENTION: Method for Treating Autoimmune or Inflammatory Diseases with Comb
TITLE OF INVENTION: of Inhibitory Oligonucleotides and Small Molecule Antagonists of
```

```
TITLE OF INVENTION: Immunostimulatory CpG Nucleic Acids
FILE REFERENCE: C01037.70046.US
CURRENT APPLICATION NUMBER: US/10/455,247
CURRENT FILING DATE: 2003-06-05
PRIOR APPLICATION NUMBER: US 60/386,274
PRIOR FILING DATE: 2002-06-05
NUMBER OF SEQ ID NOS: 30
SOFTWARE: PatentIn version 3.1
SEQ ID NO 3
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-455-247-3

Query Match
Best Local Similarity 100.0%; Score 20; DB 6; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 32
US-10-719-493-12
Sequence 12, Application US/10719493
Publication No. US20040087538A1
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
TITLE OF INVENTION: Methods of Treating Cancer Using
TITLE OF INVENTION: Immunostimulatory Oligonucleotides
FILE REFERENCE: C1039/7021/HCL
CURRENT APPLICATION NUMBER: US/10/719,493
CURRENT FILING DATE: 2003-11-21
PRIOR APPLICATION NUMBER: US 08/960,774
PRIOR FILING DATE: 1997-10-30
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 123
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 12
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-719-493-12

Query Match
Best Local Similarity 100.0%; Score 20; DB 7; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 33
US-10-627-331-12
Sequence 12, Application US/10627331
Publication No. US20040106568A1
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Methods for Treating and Preventing
TITLE OF INVENTION: Infectious Disease
```

```
FILE REFERENCE: C01039.70062.US
CURRENT APPLICATION NUMBER: US/10/627,331
CURRENT FILING DATE: 2003-07-25
PRIOR APPLICATION NUMBER: US 09/630,319
PRIOR FILING DATE: 2000-07-31
PRIOR APPLICATION NUMBER: US 08/960,774
PRIOR FILING DATE: 1997-10-30
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 124
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 12
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-10-627-331-12
```

```
Query Match          100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGGGTCAACGTTGAGGGGG 20
        |||||
DB      1 GGGGTCAACGTTGAGGGGG 20
```

```
RESULT 34
US-10-743-625-12
Sequence 12, Application US/10743625
Publication No. US20040132685A1
GENERAL INFORMATION:
APPLICANT: Kries, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C01039.70075.US
CURRENT APPLICATION NUMBER: US/10/743,625
CURRENT FILING DATE: 2003-12-22
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
PRIOR APPLICATION NUMBER: US 09/818,918
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 12
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-743-625-12
```

```
Query Match          100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGGGTCAACGTTGAGGGGG 20
        |||||
DB      1 GGGGTCAACGTTGAGGGGG 20
```

RESULT 35

```
US-10-679-710-12
Sequence 12, Application US/10679710
Publication No. US20040147468A1
GENERAL INFORMATION:
APPLICANT: Kries, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039.70074US00
CURRENT APPLICATION NUMBER: US/10/679,710
CURRENT FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: US 09/818,918
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 12
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-679-710-12
```

```
Query Match          100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGGGTCAACGTTGAGGGGG 20
        |||||
DB      1 GGGGTCAACGTTGAGGGGG 20
```

```
RESULT 36
US-10-769-282-12
Sequence 12, Application US/10769282
Publication No. US20040167089A1
GENERAL INFORMATION:
APPLICANT: Kries, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/10/769,282
CURRENT FILING DATE: 2004-01-30
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 12
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-769-282-12
```

```
Query Match          100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 GGGGTCAACGTTGAGGGGG 20
```


Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 37

US-10-817-165-12
; Sequence 12, Application US/10817165
; Publication No. US20040198688A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunoestimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/10/817,165
; PRIOR FILING DATE: 2004-04-02
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-817-165-12

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGGTCAACGTTGAGGGGG 20

Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 38

US-10-877-407-30
; Sequence 30, Application US/10877407
; Publication No. US20040229835A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunoestimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039, 70048US05
; CURRENT APPLICATION NUMBER: US/10/877,407
; CURRENT FILING DATE: 2004-06-24
; PRIOR APPLICATION NUMBER: US 09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 30
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-877-407-30

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1 GGGGTCAACGTTGAGGGGG 20
Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 39

US-10-831-778-519
; Sequence 519, Application US/10831778
; Publication No. US20040235774A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunoestimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/831,778
; CURRENT FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 519
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-831-778-519

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGGTCAACGTTGAGGGGG 20

Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 40

US-10-831-778-767
; Sequence 767, Application US/10831778
; Publication No. US20040235774A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunoestimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/831,778
; CURRENT FILING DATE: 2004-04-23
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 767
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-831-778-767

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 GGGGTCAACGTTGAGGGGG 20

Db 1 |||||
GGGTCACGTGAGGGG 20

Search completed: March 8, 2006, 20:43:22
Job time : 420.057 secs

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 01:35:44 ; Search time 89.8113 Seconds

(Without alignments)
395.844 Million cell updates/sec

Title: US-09-337-584-12

Perfect score: 20

Sequence: 1 ggggtcacgcgttgaggggggg 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Issued Patents NA:*

1: /cgn2_6/ptodata/1/ina/1_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCRTUS_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/Backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	3	US-08-738-653-12
2	20	100.0	20	3	US-09-030-701-63
3	20	100.0	20	3	US-08-960-774-90
4	20	100.0	20	3	US-09-082-649B-52
5	20	100.0	20	3	US-09-082-649B-59
6	20	100.0	20	3	US-09-137-613-12
7	20	100.0	20	3	US-09-965-101-52
8	20	100.0	20	3	US-09-672-126B-1
9	20	100.0	20	3	US-09-672-126B-135
10	20	100.0	20	3	US-09-672-126B-156
11	20	100.0	20	3	US-08-386-063-1
12	20	100.0	20	3	US-08-386-063-1
13	20	100.0	20	3	US-08-386-063-1
14	20	100.0	20	3	US-08-386-063-1
15	20	100.0	20	3	US-08-386-063-1
16	20	100.0	20	3	US-08-386-063-1
17	20	100.0	20	3	US-08-386-063-1
18	20	100.0	20	3	US-08-386-063-1
19	20	100.0	20	3	US-08-386-063-1
20	20	100.0	20	3	US-08-386-063-1
21	20	100.0	20	3	US-08-386-063-1
22	20	100.0	20	3	US-08-386-063-1
23	20	100.0	20	3	US-08-386-063-1
24	20	100.0	20	3	US-08-386-063-1

25	16.8	84.0	20	3	US-09-672-126B-136	Sequence 136, App
26	16.8	84.0	20	3	US-09-672-126B-151	Sequence 151, App
27	16.8	84.0	21	3	US-09-672-126B-17	Sequence 17, App
28	16.8	84.0	21	3	US-09-672-126B-148	Sequence 148, App
29	16.8	84.0	1426	3	US-09-949-016-15733	Sequence 15733, A
30	16	80.0	19	3	US-09-464-535-41	Sequence 41, App
31	15.8	79.0	19	3	US-09-672-126B-27	Sequence 27, App
32	15.8	79.0	1674	3	US-09-482-273-78	Sequence 78, App
33	15.8	79.0	2004	3	US-10-104-047-1222	Sequence 1222, Ap
34	15.8	79.0	2312	3	US-09-620-312D-921	Sequence 921, App
35	15.8	79.0	2312	3	US-09-620-312D-921	Sequence 921, App
36	15.2	76.0	20	3	US-08-386-063-27	Sequence 27, App
37	15.2	76.0	20	3	US-08-386-063-27	Sequence 27, App
38	15.2	76.0	30	3	US-09-672-126B-165	Sequence 165, App
39	15.2	76.0	379	3	US-09-270-767-2945	Sequence 2945, Ap
40	15.2	76.0	379	3	US-09-270-767-18227	Sequence 18227, A
41	15.2	76.0	409	3	US-09-513-999C-15817	Sequence 15817, A
42	15.2	76.0	462	3	US-09-902-540-4875	Sequence 4875, Ap
43	15.2	76.0	504	3	US-09-470-191-18	Sequence 18, App
44	15.2	76.0	601	3	US-09-949-016-17436	Sequence 17436, Sequence 174518,
45	15.2	76.0	601	3	US-09-949-016-174518	Sequence 1, App
46	15.2	76.0	634	2	US-08-451-947-1	Sequence 1, App
47	15.2	76.0	634	2	US-08-424-826A-1	Sequence 1, App
48	15.2	76.0	634	3	US-08-928-694-1	Sequence 1, App
49	15.2	76.0	634	3	US-08-450-842-1	Sequence 1, App
50	15.2	76.0	634	3	US-08-451-390-1	Sequence 1, App
51	15.2	76.0	634	6	PCR-US91-06950-1	Sequence 1, App
52	15.2	76.0	813	3	US-09-602-787A-471	Sequence 471, App
53	15.2	76.0	831	3	US-09-540-236-799	Sequence 799, App
54	15.2	76.0	1404	2	US-07-796-106-22	Sequence 22, App
55	15.2	76.0	1533	3	US-09-657-013-21	Sequence 21, App
56	15.2	76.0	1652	3	US-09-657-013-26	Sequence 26, App
57	15.2	76.0	1669	3	US-09-657-013-20	Sequence 20, App
58	15.2	76.0	2351	3	US-09-657-013-23	Sequence 23, App
59	15.2	76.0	3220	2	US-08-225-488-1	Sequence 1, App
60	15.2	76.0	10091	3	US-09-657-013-24	Sequence 24, App
61	15.2	76.0	10182	3	US-09-657-013-25	Sequence 25, App
62	15.2	76.0	10182	3	US-09-657-013-27	Sequence 27, App
63	15.2	76.0	10182	3	US-09-657-013-28	Sequence 28, App
64	15.2	76.0	10182	3	US-09-949-016-4338	Sequence 4338, Ap
65	15.2	76.0	11703	3	US-09-101-886B-3	Sequence 3, App
66	15.2	76.0	15666	3	US-09-949-016-15929	Sequence 15929, A
67	15.2	76.0	28509	3	US-09-902-540-1440	Sequence 1440, Ap
68	15.2	76.0	39243	3	US-09-949-016-12316	Sequence 12316, A
69	15.2	76.0	39243	3	US-09-949-016-15443	Sequence 15443, A
70	15.2	76.0	63909	3	US-09-949-016-13423	Sequence 13423, A
71	15.2	76.0	79858	3	US-09-949-016-16080	Sequence 16080, A
72	15.2	76.0	94750	3	US-09-596-002-38	Sequence 38, App
73	15.2	76.0	126237	3	US-09-949-016-16674	Sequence 16674, A
74	15.2	76.0	126237	3	US-09-949-016-16675	Sequence 16675, A
75	15.2	76.0	191433	3	US-09-949-016-16144	Sequence 16144, A
76	15.2	76.0	271134	3	US-09-949-016-12705	Sequence 12705, A
77	15.2	76.0	305491	3	US-09-949-016-17550	Sequence 17550, A
78	15.2	76.0	4403765	3	US-09-103-840A-2	Sequence 2, App
79	15.2	76.0	4411528	3	US-09-103-840A-1	Sequence 1, App
80	14.8	74.0	18	3	US-09-672-126B-28	Sequence 28, App
81	14.8	74.0	259	3	US-08-581-148C-1	Sequence 1, App
82	14.8	74.0	601	3	US-09-949-016-23535	Sequence 23535, A
83	14.8	74.0	601	3	US-09-949-016-96442	Sequence 96442, A
84	14.8	74.0	601	3	US-09-949-016-96443	Sequence 96443, A
85	14.8	74.0	601	3	US-09-949-016-96708	Sequence 96708, A
86	14.8	74.0	601	3	US-09-949-016-96709	Sequence 96709, A
87	14.8	74.0	601	3	US-09-949-016-96974	Sequence 96974, A
88	14.8	74.0	601	3	US-09-949-016-96975	Sequence 96975, A
89	14.8	74.0	601	3	US-09-949-016-97240	Sequence 97240, A
90	14.8	74.0	601	3	US-09-949-016-97241	Sequence 97241, A
91	14.8	74.0	601	3	US-09-949-016-97506	Sequence 97506, A
92	14.8	74.0	601	3	US-09-949-016-97507	Sequence 97507, A
93	14.8	74.0	601	3	US-09-949-016-97772	Sequence 97772, A
94	14.8	74.0	601	3	US-09-949-016-97773	Sequence 97773, A
95	14.8	74.0	601	3	US-09-949-016-98038	Sequence 98038, A
96	14.8	74.0	601	3	US-09-949-016-98039	Sequence 98039, A
97	14.8	74.0	601	3	US-09-949-016-98304	Sequence 98304, A

c 98 14.8 74.0 601 3 US-09-949-016-98305 Sequence 98305, A
c 99 14.8 74.0 601 3 US-09-949-016-98570 Sequence 98570, A
c 100 14.8 74.0 601 3 US-09-949-016-98571 Sequence 98571, A

ALIGNMENTS

RESULT 1

US-08-738-652-12
; Sequence 12, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-12

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
DB 1 GGGGTCAACGTTGAGGGGG 20

RESULT 2

US-09-030-701-63
; Sequence 63, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
; FILE REFERENCE: C1039/7011
; FILE REFERENCE: LPS-ASSOCIATED DISORDERS
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-63

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
DB 1 GGGGTCAACGTTGAGGGGG 20

US-08-960-774-90
; Sequence 90, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 90:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-90

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
DB 1 GGGGTCAACGTTGAGGGGG 20

RESULT 4

US-09-082-649B-52
; Sequence 52, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Scholtz, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20

```
NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 52
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has a phosphorothioate backbone.
US-09-082-649B-52
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GGGGTCAACGTTGAGGGGG 20
    |||||
Db 1 GGGGTCAACGTTGAGGGGG 20
```

```
RESULT 5
US-09-082-649B-59
; Sequence 59, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Mu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 59
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has SOS-ODN backbone with two S-1-linkages at the 5'
; OTHER INFORMATION: end, five S-1-linkages at the 3' end, and O-1-linkages
; OTHER INFORMATION: in between.
US-09-082-649B-59
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GGGGTCAACGTTGAGGGGG 20
    |||||
Db 1 GGGGTCAACGTTGAGGGGG 20
```

```
RESULT 6
US-09-191-170-47
; Sequence 47, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
```

```
FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 47
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-47
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GGGGTCAACGTTGAGGGGG 20
    |||||
Db 1 GGGGTCAACGTTGAGGGGG 20
```

```
RESULT 7
US-09-337-619-12
; Sequence 12, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-12
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy 1 GGGGTCAACGTTGAGGGGG 20
    |||||
Db 1 GGGGTCAACGTTGAGGGGG 20
```

```
RESULT 8
US-09-965-101-52
; Sequence 52, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
```

```

; APPLICANT: Davis, Heather L.
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 52
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has a phosphorothioate backbone.
; US-09-965-101-52
```

```

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

Qy      1 GGGGTCAACGTTGAGGGGG 20
        |||||
Db      1 GGGGTCAACGTTGAGGGGG 20
```

```

RESULT 9
; US-09-965-101-59
; Sequence 59, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 59
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has SOS-ODN backbone with two S-linkages at the 5'
; OTHER INFORMATION: end, five S-linkages at the 3' end, and O-linkages
; OTHER INFORMATION: in between.
; US-09-965-101-59
```

```

Query Match          100.0%; Score 20; DB 3; Length 20;
```

```

Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 GGGGTCAACGTTGAGGGGG 20
        |||||
Db      1 GGGGTCAACGTTGAGGGGG 20
```

```

RESULT 10
; US-09-672-126B-1
; Sequence 1, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Kriegl, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (1)...(2)
; OTHER INFORMATION: Backbone has phosphorothioate linkages.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)...(14)
; OTHER INFORMATION: Backbone has phosphodiester linkages.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)...(19)
; OTHER INFORMATION: Backbone has phosphorothioate linkages.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)...(20)
; OTHER INFORMATION: Backbone has phosphodiester linkages.
; US-09-672-126B-1
```

```

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

Qy      1 GGGGTCAACGTTGAGGGGG 20
        |||||
Db      1 GGGGTCAACGTTGAGGGGG 20
```

```

RESULT 11
; US-09-672-126B-135
; Sequence 135, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Kriegl, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
```

NUMBER OF SEQ ID NOS: 169
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 135
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic Oligonucleotide
 US-09-672-126B-135

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 1.6;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
 Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 12
 US-09-672-126B-156
 Sequence 156, Application US/09672126B
 Patent No. 6949520
 GENERAL INFORMATION:
 APPLICANT: Hartmann, Gunther
 APPLICANT: Bratzler, Robert L.
 TITLE OF INVENTION: Methods Related to Immunostimulatory
 TITLE OF INVENTION: Nucleic Acid-Induced Interferon
 FILE REFERENCE: C1039/7044
 CURRENT APPLICATION NUMBER: US/09/672,126B
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: 60/156,147
 PRIOR FILING DATE: 1999-09-29
 NUMBER OF SEQ ID NOS: 169
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 156
 LENGTH: 21
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic Oligonucleotide
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (1)...(2)
 OTHER INFORMATION: Backbone has phosphorothioate linkages.
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (3)...(15)
 OTHER INFORMATION: Backbone has phosphodiester linkages.
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (21)...(21)
 OTHER INFORMATION: Backbone has phosphodiester linkages.
 US-09-672-126B-156

Query Match 100.0%; Score 20; DB 3; Length 21;
 Best Local Similarity 100.0%; Pred. No. 1.6;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
 Db 2 GGGGTCAACGTTGAGGGGG 21

RESULT 13
 US-08-386-063-1
 Sequence 1, Application US/08386063
 Patent No. 6008200

GENERAL INFORMATION:
 APPLICANT: Arthur M. Krieg, M.D.
 TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
 NUMBER OF SEQUENCES: 27
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: LAHYE & COCKFIELD
 STREET: 60 STATE STREET, SUITE 510
 CITY: BOSTON
 STATE: MASSACHUSETTS
 COUNTRY: USA
 ZIP: 02109-1875
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/386,063
 FILING DATE:
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: ARNOLD, BETH E.
 REGISTRATION NUMBER: 35,430
 REFERENCE/DOCKET NUMBER: UIZ-013CP
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617)227-7400
 TELEFAX: (617)227-5941
 INFORMATION FOR SEQ ID NO: 1:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 20 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: DNA
 US-08-386-063-1

Query Match 92.0%; Score 18.4; DB 3; Length 20;
 Best Local Similarity 95.0%; Pred. No. 9.5;
 Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 20
 Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 14
 US-08-386-063-1
 Sequence 1, Application US/08386063
 Patent No. 6194388
 GENERAL INFORMATION:
 APPLICANT: Arthur M. Krieg, M.D.
 TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
 NUMBER OF SEQUENCES: 27
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: LAHYE & COCKFIELD
 STREET: 60 STATE STREET, SUITE 510
 CITY: BOSTON
 STATE: MASSACHUSETTS
 COUNTRY: USA
 ZIP: 02109-1875
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: ASCII text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/386,063
 FILING DATE:
 CLASSIFICATION:
 ATTORNEY/AGENT INFORMATION:
 NAME: ARNOLD, BETH E.
 REGISTRATION NUMBER: 35,430
 REFERENCE/DOCKET NUMBER: UIZ-013CP

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-1

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 9.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 20
DB 1 GGGGTCAACGTTGAGGGGG 20

RESULT 15
US-09-030-701-21

Sequence 21, Application US/09030701B
Patent No. 6214806
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
APPLICANT: Schwartz, David A.
TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
FILE REFERENCE: C1039/7011
CURRENT APPLICATION NUMBER: US/09/030,701B
CURRENT FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: 60/039,405
PRIOR FILING DATE: 1997-02-28
NUMBER OF SEQ ID NOS: 65
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 21
LENGTH: 19
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-21

Query Match 87.0%; Score 17.4; DB 3; Length 19;
Best Local Similarity 94.7%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 19
DB 1 GGGGTCAACGTTGAGGGGG 19

RESULT 16
US-09-286-098-52

Sequence 52, Application US/09286098
Patent No. 6218371
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
APPLICANT: Weiner, George
TITLE OF INVENTION: Methods and Products for Stimulating the
TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
FILE REFERENCE: C1039/7026/HCL
CURRENT APPLICATION NUMBER: US/09/286,098
CURRENT FILING DATE: 1999-04-02
EARLIER APPLICATION NUMBER: US 60/080,729
EARLIER FILING DATE: 1998-04-03
NUMBER OF SEQ ID NOS: 105
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 52

LENGTH: 19
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-286-098-52

Query Match 87.0%; Score 17.4; DB 3; Length 19;
Best Local Similarity 94.7%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 19
DB 1 GGGGTCAACGTTGAGGGGG 19

RESULT 17
US-08-960-774-12

Sequence 12, Application US/08960774
Patent No. 6239116
GENERAL INFORMATION:
APPLICANT: Kriegl et al.,
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.,
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/960,774
FILING DATE: 30-October-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
FILING DATE: October 30, 1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 08918/012001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/678-5070
TELEFAX: 619/678-5099
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 19 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-960-774-12

Query Match 87.0%; Score 17.4; DB 3; Length 19;
Best Local Similarity 94.7%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 19
DB 1 GGGGTCAACGTTGAGGGGG 19

RESULT 18

US-09-325-193A-46
Sequence 46, Application US/09325193A
Patent No. 6406705


```
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Schorr, Joachim
APPLICANT: Kriegl, Arthur M.
TITLE OF INVENTION: Use of Nucleic Acids Containing
TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
FILE REFERENCE: C1039/7025/HCL
CURRENT APPLICATION NUMBER: US/09/325,193A
CURRENT FILING DATE: 1999-06-03
PRIOR APPLICATION NUMBER: US 09/154,614
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/04703
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: US 60/040,376
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 98
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 46
LENGTH: 19
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-46
```

```
Query Match      87.0%; Score 17.4; DB 3; Length 19;
Best Local Similarity 94.7%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 GGGGTCAACGTTGAGGGG 19
Db 1 GGGGTCAACGTTGAGGGG 19
```

```
RESULT 19
US-09-954-987B-61
Sequence 61, Application US/09954987B
Patent No. 6943240
GENERAL INFORMATION:
APPLICANT: Stefan Bauer
APPLICANT: Grayson B. Lipford
APPLICANT: Hermann Wagner
TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
FILE REFERENCE: C1041/7016 (AMS)
CURRENT APPLICATION NUMBER: US/09/954,987B
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: US 60/233,035
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/263,657
PRIOR FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 60/291,726
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 60/300,210
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 230
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 61
LENGTH: 19
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-61
```

```
Query Match      87.0%; Score 17.4; DB 3; Length 19;
Best Local Similarity 94.7%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 GGGGTCAACGTTGAGGGG 19
Db 1 GGGGTCAACGTTGAGGGG 19
```

```
RESULT 20
US-09-672-126B-68
Sequence 68, Application US/09672126B
Patent No. 6949520
GENERAL INFORMATION:
APPLICANT: Hartmann, Gunther
APPLICANT: Bratzler, Robert L.
APPLICANT: Kriegl, Arthur
TITLE OF INVENTION: Methods Related to Immunostimulatory
TITLE OF INVENTION: Nucleic Acid-Induced Interferon
FILE REFERENCE: C1039/7044
CURRENT APPLICATION NUMBER: US/09/672,126B
CURRENT FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/156,147
PRIOR FILING DATE: 1999-09-29
NUMBER OF SEQ ID NOS: 169
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 68
LENGTH: 19
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-672-126B-68
```

```
Query Match      87.0%; Score 17.4; DB 3; Length 19;
Best Local Similarity 94.7%; Pred. No. 29;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
Qy 1 GGGGTCAACGTTGAGGGG 19
Db 1 GGGGTCAACGTTGAGGGG 19
```

```
RESULT 21
US-09-786-532-2
Sequence 2, Application US/09786532
Patent No. 6610308
GENERAL INFORMATION:
APPLICANT: Haenseler, Jean
TITLE OF INVENTION: Immunostimulant Emulsion
FILE REFERENCE: 01-125
CURRENT APPLICATION NUMBER: US/09/786,532
CURRENT FILING DATE: 2001-06-27
NUMBER OF SEQ ID NOS: 2
SOFTWARE: PatentIn version 3.0
SEQ ID NO 2
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthesized sequence
US-09-786-532-2
```

```
Query Match      84.0%; Score 16.8; DB 3; Length 20;
Best Local Similarity 90.0%; Pred. No. 57;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
Qy 1 GGGGTCAACGTTGAGGGG 20
Db 1 GGGGTCAACGTTGAGGGG 20
```

```
RESULT 22
US-09-672-126B-5
Sequence 5, Application US/09672126B
Patent No. 6949520
GENERAL INFORMATION:
APPLICANT: Hartmann, Gunther
APPLICANT: Bratzler, Robert L.
APPLICANT: Kriegl, Arthur
TITLE OF INVENTION: Methods Related to Immunostimulatory
```

```

; TITLE OF INVENTION: Nucleic Acid-Induced Interferon
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (1)..(20)
; OTHER INFORMATION: Backbone has phosphorothioate linkages.
US-09-672-126B-5
```

```

Query Match          84.0%; Score 16.8; DB 3; Length 20;
Best Local Similarity 90.0%; Pred. No. 57;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 GGGGTCAACGTTGAGGGGG 20
    ||||| ||||| ||||| |||||
DB 1 GGGGTCAACGTTGAGGGGG 20
```

```

RESULT 23
US-09-672-126B-6
; Sequence 6, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Kriegl, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 6
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (1)..(20)
; OTHER INFORMATION: Backbone has phosphorothioate linkages.
US-09-672-126B-6
```

```

Query Match          84.0%; Score 16.8; DB 3; Length 20;
Best Local Similarity 90.0%; Pred. No. 57;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 GGGGTCAACGTTGAGGGGG 20
    ||||| ||||| ||||| |||||
DB 1 GGGGTCAACGTTGAGGGGG 20
```

```

RESULT 24
US-09-672-126B-24
; Sequence 24, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
```

```

; APPLICANT: Bratzler, Robert L.
; APPLICANT: Kriegl, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (1)..(2)
; OTHER INFORMATION: Backbone has phosphorothioate linkages.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (3)..(14)
; OTHER INFORMATION: Backbone has phosphodiester linkages.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (15)..(19)
; OTHER INFORMATION: Backbone has phosphorothioate linkages.
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (20)..(20)
; OTHER INFORMATION: Backbone has phosphodiester linkages.
US-09-672-126B-24
```

```

Query Match          84.0%; Score 16.8; DB 3; Length 20;
Best Local Similarity 90.0%; Pred. No. 57;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 GGGGTCAACGTTGAGGGGG 20
    ||||| ||||| ||||| |||||
DB 1 GGGGTCAACGTTGAGGGGG 20
```

```

RESULT 25
US-09-672-126B-136
; Sequence 136, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Kriegl, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 136
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-672-126B-136
```

```

Query Match          84.0%; Score 16.8; DB 3; Length 20;
Best Local Similarity 90.0%; Pred. No. 57;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

OY 1 GGGGTCAACGTTGAGGGGG 20
 |||||
 Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 26

US-09-672-126B-151

Sequence 151, Application US/09672126B
 Patent No. 6949520
 GENERAL INFORMATION:
 APPLICANT: Hartmann, Gunther
 APPLICANT: Bratzler, Robert L.
 TITLE OF INVENTION: Methods Related to Immunostimulatory
 FILE REFERENCE: C1039/7044
 CURRENT APPLICATION NUMBER: US/09/672,126B
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: 60/156,147
 NUMBER OF SEQ ID NOS: 169
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 151
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic Oligonucleotide
 NAME/KEY: misc_feature
 LOCATION: (1)..(2)
 OTHER INFORMATION: Backbone has phosphorothioate linkages.
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (3)..(14)
 OTHER INFORMATION: Backbone has phosphodiester linkages.
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (15)..(19)
 OTHER INFORMATION: Backbone has phosphorothioate linkages.
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (20)..(20)
 OTHER INFORMATION: Backbone has phosphodiester linkages.
 US-09-672-126B-151

Query Match 84.0%; Score 16.8; DB 3; Length 20;
 Best Local Similarity 90.0%; Pred. No. 57;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GGGGTCAACGTTGAGGGGG 20
 |||||
 Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 27

US-09-672-126B-17

Sequence 17, Application US/09672126B
 Patent No. 6949520
 GENERAL INFORMATION:
 APPLICANT: Hartmann, Gunther
 APPLICANT: Bratzler, Robert L.
 TITLE OF INVENTION: Methods Related to Immunostimulatory
 FILE REFERENCE: C1039/7044
 CURRENT APPLICATION NUMBER: US/09/672,126B
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: 60/156,147
 NUMBER OF SEQ ID NOS: 169
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 17

LENGTH: 21
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic Oligonucleotide
 NAME/KEY: misc_feature
 LOCATION: (1)..(2)
 OTHER INFORMATION: Backbone has phosphorothioate linkages.
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (3)..(15)
 OTHER INFORMATION: Backbone has phosphodiester linkages.
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (16)..(20)
 OTHER INFORMATION: Backbone has phosphorothioate linkages.
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (21)..(21)
 OTHER INFORMATION: Backbone has phosphodiester linkages.
 US-09-672-126B-17

Query Match 84.0%; Score 16.8; DB 3; Length 21;
 Best Local Similarity 90.0%; Pred. No. 57;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1 GGGGTCAACGTTGAGGGGG 20
 |||||
 Db 2 GGGGTCAACGTTGAGGGGG 21

RESULT 28

US-09-672-126B-148

Sequence 148, Application US/09672126B
 Patent No. 6949520
 GENERAL INFORMATION:
 APPLICANT: Hartmann, Gunther
 APPLICANT: Bratzler, Robert L.
 TITLE OF INVENTION: Methods Related to Immunostimulatory
 FILE REFERENCE: C1039/7044
 CURRENT APPLICATION NUMBER: US/09/672,126B
 PRIOR FILING DATE: 2000-09-27
 PRIOR APPLICATION NUMBER: 60/156,147
 NUMBER OF SEQ ID NOS: 169
 SOFTWARE: FastSeq for Windows Version 3.0
 SEQ ID NO 148
 LENGTH: 21
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic Oligonucleotide
 NAME/KEY: misc_feature
 LOCATION: (1)..(2)
 OTHER INFORMATION: Backbone has phosphorothioate linkages.
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (3)..(14)
 OTHER INFORMATION: Backbone has phosphodiester linkages.
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (15)..(20)
 OTHER INFORMATION: Backbone has phosphorothioate linkages.
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (21)..(21)
 OTHER INFORMATION: Backbone has phosphodiester linkages.
 FEATURE:
 NAME/KEY: misc_difference

```
LOCATION: (2)...(2)
OTHER INFORMATION: m = a or c
FEATURE:
NAME/KEY: misc difference
LOCATION: (18)...(18)
OTHER INFORMATION: m = a or c
US-09-672-126B-148
```

```
Query Match      84.0%; Score 16.8; DB 3; Length 21;
Best Local Similarity 90.0%; Pred. No. 57;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 GGGGTCAACGTTGAGGGGG 20
    |||||
Db 1 GGGGTCAACGTTGAGGGGG 20
```

```
RESULT 29
US-09-949-016-15733
Sequence 15733, Application US/09949016
Patent No. 6812339
GENERAL INFORMATION:
APPLICANT: VENTER, J. Craig et al.
TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949,016
CURRENT FILING DATE: 2000-04-14
PRIOR APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIOR APPLICATION NUMBER: 60/231,498
PRIOR FILING DATE: 2000-09-08
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 15733
LENGTH: 84587
TYPE: DNA
ORGANISM: Human
NAME/KEY: misc feature
LOCATION: (1)...(84587)
OTHER INFORMATION: n = A,T,C or G
US-09-949-016-15733
```

```
Query Match      84.0%; Score 16.8; DB 3; Length 84587;
Best Local Similarity 90.0%; Pred. No. 1e+02;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1 GGGGTCAACGTTGAGGGGG 20
    |||||
Db 2725 GGGGTCAACGTTGAGGGGG 2744
```

```
RESULT 30
US-09-464-535-41
Sequence 41, Application US/09464535
Patent No. 6545200
GENERAL INFORMATION:
APPLICANT: Famodu, Omolayo O.
APPLICANT: Cahoon, Rebecca E.
APPLICANT: Sakai, Hajime
APPLICANT: McGonigle, Brian
APPLICANT: Rafaleki, J. Antoni
TITLE OF INVENTION: STEROL BIOSYNTHETIC ENZYMES
FILE REFERENCE: B01306 US NA
CURRENT APPLICATION NUMBER: US/09/464,535
CURRENT FILING DATE: 1999-12-15
PRIOR APPLICATION NUMBER: 60/112,555
EARLIER FILING DATE: 1998-12-16
NUMBER OF SEQ ID NOS: 44
SOFTWARE: Microsoft Office 97
```

```
SEQ ID NO 41
LENGTH: 1426
TYPE: DNA
ORGANISM: Zea mays
US-09-464-535-41
```

```
Query Match      80.0%; Score 16; DB 3; Length 1426;
Best Local Similarity 100.0%; Pred. No. 1.9e+02;
Matches 16; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY 3 GGTCAACGTTGAGGGG 18
    |||||
Db 363 GGTCAACGTTGAGGGG 378
```

```
RESULT 31
US-09-672-126B-27
Sequence 27, Application US/09672126B
Patent No. 6949520
GENERAL INFORMATION:
APPLICANT: Hartmann, Gunther
APPLICANT: Bratzler, Robert L.
APPLICANT: Kries, Arthur
TITLE OF INVENTION: Methods Related to Immunostimulatory
Nucleic Acid-Induced Interferon
FILE REFERENCE: C1039/7044
CURRENT APPLICATION NUMBER: US/09/672,126B
CURRENT FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/156,147
PRIOR FILING DATE: 1999-09-29
NUMBER OF SEQ ID NOS: 169
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 27
LENGTH: 19
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
NAME/KEY: misc feature
LOCATION: (1)...(2)
OTHER INFORMATION: Backbone has phosphorothioate linkages.
FEATURE:
NAME/KEY: misc feature
LOCATION: (3)...(13)
OTHER INFORMATION: Backbone has phosphodiester linkages.
FEATURE:
NAME/KEY: misc feature
LOCATION: (14)...(18)
OTHER INFORMATION: Backbone has phosphorothioate linkages.
FEATURE:
NAME/KEY: misc feature
LOCATION: (19)...(19)
OTHER INFORMATION: Backbone has phosphodiester linkages.
US-09-672-126B-27
```

```
Query Match      79.0%; Score 15.8; DB 3; Length 19;
Best Local Similarity 89.5%; Pred. No. 1.7e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 2 GGTCAACGTTGAGGGGG 20
    |||||
Db 1 GGTCAACGTTGAGGGGG 19
```

```
RESULT 32
US-09-482-773-78/c
Sequence 78, Application US/09482273
Patent No. 6534631
GENERAL INFORMATION:
APPLICANT: Rosen et al.
TITLE OF INVENTION: 71 Human Secreted Proteins
FILE REFERENCE: P2030P1
```

```

; CURRENT APPLICATION NUMBER: US/09/482,273
; EARLIER FILING DATE: 2000-01-13
; EARLIER APPLICATION NUMBER: PCT/US99/15849
; EARLIER FILING DATE: 1999-07-14
; EARLIER APPLICATION NUMBER: 60/092,921
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/092,922
; EARLIER FILING DATE: 1998-07-15
; EARLIER APPLICATION NUMBER: 60/092,956
; EARLIER FILING DATE: 1998-07-15
; NUMBER OF SEQ ID NOS: 267
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 78
; LENGTH: 1674
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-482-273-78

Query Match
Best Local Similarity 79.0%; Score 15.8; DB 3; Length 1674;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 19
Db 1483 GGGGTCAACGTTGAGGGGG 1465

RESULT 33
US-10-104-047-1222
; Sequence 1222, Application US/10104047
; Patent No. 6943241
; GENERAL INFORMATION:
; APPLICANT: HELIX RESEARCH INSTITUTE
; TITLE OF INVENTION: NO. 6943241el full length cDNA
; FILE REFERENCE: H1-A0105
; CURRENT APPLICATION NUMBER: US/10/104,047
; CURRENT FILING DATE: 2002-03-25
; PRIOR APPLICATION NUMBER:
; PRIOR FILING DATE:
; NUMBER OF SEQ ID NOS: 4096
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1222
; LENGTH: 2004
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-104-047-1222

Query Match
Best Local Similarity 79.0%; Score 15.8; DB 3; Length 2004;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 GGGTCAACGTTGAGGGGG 20
Db 732 GGGTCAACGTTGAGGGGG 750

RESULT 34
US-09-620-312D-921
; Sequence 921, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Zhao, Rui-hong
; APPLICANT: Chen, Qing A.
; APPLICANT: Weinman, Tom
; APPLICANT: Xue, Aiyong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
```

```

; APPLICANT: Ma, Yunging
; APPLICANT: Wang, Duntui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Dimanac, Radoje T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pc_FL_genes Version 1.0
; SEQ ID NO 921
; LENGTH: 2312
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (778)..(2067)
US-09-620-312D-921

Query Match
Best Local Similarity 79.0%; Score 15.8; DB 3; Length 2312;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 GGGGTCAACGTTGAGGGGG 19
Db 88 GGGGTCAACGTTGAGGGGG 106

RESULT 35
US-09-620-312D-921/c
; Sequence 921, Application US/09620312D
; Patent No. 6569662
; GENERAL INFORMATION:
; APPLICANT: Tang, Y. Tom
; APPLICANT: Liu, Chenghua
; APPLICANT: Asundi, Vinod
; APPLICANT: Zhang, Jie
; APPLICANT: Ren, Feiyan
; APPLICANT: Chen, Rui-hong
; APPLICANT: Zhao, Qing A.
; APPLICANT: Weinman, Tom
; APPLICANT: Xue, Aiyong J.
; APPLICANT: Yang, Yonghong
; APPLICANT: Wang, Jian-Rui
; APPLICANT: Zhou, Ping
; APPLICANT: Ma, Yunging
; APPLICANT: Wang, Duntui
; APPLICANT: Wang, Zhiwei
; APPLICANT: John Tillinghast
; APPLICANT: Dimanac, Radoje T.
; TITLE OF INVENTION: No. 6569662el Nucleic Acids and
; FILE REFERENCE: 784CIP2B
; CURRENT APPLICATION NUMBER: US/09/620,312D
; CURRENT FILING DATE: 2000-07-19
; PRIOR APPLICATION NUMBER: 09/552,317
; PRIOR FILING DATE: 2000-04-25
; PRIOR APPLICATION NUMBER: 09/488,725
; PRIOR FILING DATE: 2000-01-21
; NUMBER OF SEQ ID NOS: 1105
; SOFTWARE: pc_FL_genes Version 1.0
; SEQ ID NO 921
; LENGTH: 2312
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
```

LOCATION: (778) . (2067)
US-09-620-312D-921

Query Match 79.0%; Score 15.8; DB 3; Length 2312;
Best Local Similarity 89.5%; Pred. No. 2.4e+02;
Matches 17; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 GGGGTCAACGTTGAGGGGG 19

Db 1356 GCGGTCAACGTTGAGGGGG 1338

RESULT 36

US-08-386-063-27

Sequence 27, Application US/08386063

Patent No. 6008200

GENERAL INFORMATION:

APPLICANT: Arthur M. Krieg, M.D.

TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 60 STATE STREET, SUITE 510

CITY: BOSTON

STATE: MASSACHUSETTS

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: ASCII text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/386,063

FILING DATE:

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: ARNOLD, BETH E.

REGISTRATION NUMBER: 35,430

REFERENCE/DOCKET NUMBER: UIZ-013CP

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

US-08-386-063-27

QY 1 GGGGTCAACGTTGAGGGGG 20

Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 37

US-08-386-063-27

Sequence 27, Application US/08386063

Patent No. 6194388

GENERAL INFORMATION:

APPLICANT: Arthur M. Krieg, M.D.

TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 60 STATE STREET, SUITE 510

CITY: BOSTON

STATE: MASSACHUSETTS

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: ASCII text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/386,063

FILING DATE:

CLASSIFICATION:

ATTORNEY/AGENT INFORMATION:

NAME: ARNOLD, BETH E.

REGISTRATION NUMBER: 35,430

REFERENCE/DOCKET NUMBER: UIZ-013CP

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617)227-7400

TELEFAX: (617)227-5941

INFORMATION FOR SEQ ID NO: 27:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

US-08-386-063-27

QY 1 GGGGTCAACGTTGAGGGGG 20

Db 1 GGGGTCAACGTTGAGGGGG 20

RESULT 38

US-09-672-126B-165

Sequence 165, Application US/09672126B

Patent No. 6949520

GENERAL INFORMATION:

APPLICANT: Hartmann, Gunther

APPLICANT: Batzler, Robert L.

APPLICANT: Krieg, Arthur

TITLE OF INVENTION: Methods Related to Immunostimulatory

FILE REFERENCE: C1039/7044

CURRENT APPLICATION NUMBER: US/09/672,126B

CURRENT FILING DATE: 2000-09-27

PRIOR APPLICATION NUMBER: 60/156,147

PRIOR FILING DATE: 1999-09-29

NUMBER OF SEQ ID NOS: 169

SOFTWARE: FastSeq for Windows Version 3.0

SEQ ID NO: 165

LENGTH: 30

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic Oligonucleotide

US-09-672-126B-165

QY 1 GGGGTCAACGTTGAGGGGG 20

Db 7 GGGGTCAACGTTGAGGGGG 26

RESULT 39

US-09-270-767-2945/C

Query Match 76.0%; Score 15.2; DB 3; Length 30;

Best Local Similarity 85.0%; Pred. No. 3.5e+02;

Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

; Sequence 2945, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2945
; LENGTH: 379
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-2945

```

```

Query Match      76.0%; Score 15.2; DB 3; Length 379;
Best Local Similarity 85.0%; Pred. No. 4.2e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY      1 GGGGTCAACGTTGAGGGGG 20
          |||||
Db      296 GGGGTCAACGAGAGGAGGG 277

```

```

RESULT 40
US-09-270-767-18227/c
; Sequence 18227, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
; APPLICANT: Homburger et al.
; TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
; FILE REFERENCE: File Reference: 7326-094
; CURRENT APPLICATION NUMBER: US/09/270,767
; CURRENT FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 62517
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 18227
; LENGTH: 379
; TYPE: DNA
; ORGANISM: Drosophila melanogaster
US-09-270-767-18227

```

```

Query Match      76.0%; Score 15.2; DB 3; Length 379;
Best Local Similarity 85.0%; Pred. No. 4.2e+02;
Matches 17; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

```

```

QY      1 GGGGTCAACGTTGAGGGGG 20
          |||||
Db      296 GGGGTCAACGAGAGGAGGG 277

```

Search completed: March 8, 2006, 01:51:57
 Job time : 95.813 secs

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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 20:06:26 / Search time 308.113 Seconds
(without alignments)
149.769 Million cell updates/sec

Title: US-09-337-584-10

Perfect score: 20

Sequence: 1 tccatgacgtccctgacgtc 20

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 7673375 seqs, 115364844 residues

Total number of hits satisfying chosen parameters: 15346750

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database: Published Applications NA_New:*
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2: /cgn2_6/ptodata/2/pubphn/US06_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubphn/US07_NEW_PUB.seq:*
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9: /cgn2_6/ptodata/2/pubphn/US11_NEW_PUB.seq:*
10: /cgn2_6/ptodata/2/pubphn/US11_NEW_PUB.seq:*
11: /cgn2_6/ptodata/2/pubphn/US11_NEW_PUB.seq:*
12: /cgn2_6/ptodata/2/pubphn/US11_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubphn/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	7 US-10-533-634-43	Sequence 43, Appl
2	20	100.0	20	8 US-10-469-561-5	Sequence 5, Appl
3	20	100.0	20	8 US-10-619-279-10	Sequence 10, Appl
4	20	100.0	20	8 US-10-435-656-10	Sequence 10, Appl
5	20	100.0	20	8 US-10-881-661-3	Sequence 1, Appl
6	20	100.0	20	9 US-11-081-882-1	Sequence 3, Appl
7	20	100.0	20	12 US-11-025-858-3	Sequence 3, Appl
8	20	100.0	20	12 US-11-025-858-7	Sequence 7, Appl
9	20	100.0	20	12 US-11-127-654-63	Sequence 82, Appl
10	20	100.0	20	12 US-11-127-654-82	Sequence 82, Appl
11	20	100.0	20	12 US-11-127-654-130	Sequence 130, Appl
12	20	100.0	20	12 US-11-127-654-145	Sequence 145, Appl
13	20	100.0	20	12 US-11-127-654-146	Sequence 146, Appl
14	20	100.0	20	12 US-11-127-654-292	Sequence 292, Appl
15	20	100.0	20	12 US-11-127-654-916	Sequence 916, Appl
16	20	100.0	20	12 US-11-154-324-1	Sequence 1, Appl
17	20	100.0	20	12 US-11-089-426-22	Sequence 22, Appl
18	20	100.0	20	12 US-11-134-918-10	Sequence 10, Appl
19	20	100.0	20	12 US-11-031-460-10	Sequence 10, Appl
20	20	100.0	20	12 US-11-087-177-45	Sequence 45, Appl

21	20	100.0	20	12 US-11-114-325-1	Sequence 1, Appl
22	20	100.0	20	12 US-11-033-039-906	Sequence 906, Appl
23	20	100.0	20	12 US-11-067-587-10	Sequence 10, Appl
24	20	100.0	20	12 US-11-141-690-3	Sequence 3, Appl
25	20	100.0	20	12 US-11-178-316-19	Sequence 19, Appl
26	20	100.0	20	12 US-11-099-683-61	Sequence 61, Appl
27	20	100.0	23	7 US-10-482-112D-2	Sequence 2, Appl
28	18.4	92.0	20	12 US-11-127-654-221	Sequence 221, Appl
29	18.4	92.0	1191	8 US-10-750-185-47485	Sequence 47485, A
30	18.4	92.0	1191	8 US-10-750-623-47485	Sequence 47485, A
31	18	90.0	20	8 US-10-497-591A-37	Sequence 37, Appl
32	18	90.0	20	8 US-10-497-591A-38	Sequence 38, Appl
33	18	90.0	20	12 US-11-127-654-303	Sequence 303, Appl
34	17	85.0	17	8 US-10-619-279-10	Sequence 70, Appl
35	17	85.0	17	12 US-11-127-654-66	Sequence 66, Appl
36	16.8	84.0	20	8 US-10-497-591A-12	Sequence 12, Appl
37	16.8	84.0	20	8 US-10-469-561-9	Sequence 9, Appl
38	16.8	84.0	20	8 US-10-619-279-7	Sequence 7, Appl
39	16.8	84.0	20	8 US-10-619-279-73	Sequence 73, Appl
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41	16.8	84.0	20	8 US-10-435-656-35	Sequence 35, Appl
42	16.8	84.0	20	8 US-10-435-656-44	Sequence 44, Appl
43	16.8	84.0	20	8 US-10-435-656-54	Sequence 54, Appl
44	16.8	84.0	20	10 US-11-127-803-25	Sequence 25, Appl
45	16.8	84.0	20	10 US-11-127-803-25	Sequence 25, Appl
46	16.8	84.0	20	12 US-11-128-127-25	Sequence 25, Appl
47	16.8	84.0	20	12 US-11-025-858-2	Sequence 2, Appl
48	16.8	84.0	20	12 US-11-025-858-6	Sequence 6, Appl
49	16.8	84.0	20	12 US-11-127-654-11	Sequence 11, Appl
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52	16.8	84.0	20	12 US-11-127-654-215	Sequence 215, Appl
53	16.8	84.0	20	12 US-11-127-654-219	Sequence 219, Appl
54	16.8	84.0	20	12 US-11-127-654-224	Sequence 224, Appl
55	16.8	84.0	20	12 US-11-127-654-229	Sequence 229, Appl
56	16.8	84.0	20	12 US-11-127-654-268	Sequence 268, Appl
57	16.8	84.0	20	12 US-11-127-654-269	Sequence 269, Appl
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59	16.8	84.0	20	12 US-11-127-654-779	Sequence 779, Appl
60	16.8	84.0	20	12 US-11-127-654-836	Sequence 836, Appl
61	16.8	84.0	20	12 US-11-134-918-7	Sequence 7, Appl
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63	16.8	84.0	20	12 US-11-134-918-44	Sequence 44, Appl
64	16.8	84.0	20	12 US-11-134-918-54	Sequence 54, Appl
65	16.8	84.0	20	12 US-11-031-460-7	Sequence 7, Appl
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67	16.8	84.0	20	12 US-11-031-460-44	Sequence 44, Appl
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69	16.8	84.0	20	12 US-11-067-587-7	Sequence 7, Appl
70	16.8	84.0	20	12 US-11-067-587-35	Sequence 35, Appl
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72	16.8	84.0	20	12 US-11-067-587-54	Sequence 54, Appl
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77	16.8	84.0	20	12 US-11-099-683-80	Sequence 80, Appl
78	16.8	84.0	20	12 US-11-099-683-81	Sequence 81, Appl
79	16.8	84.0	29	12 US-11-127-654-234	Sequence 234, Appl
80	16.8	84.0	29	12 US-11-127-654-234	Sequence 234, Appl
81	16.8	84.0	2245	9 US-11-096-568A-24815	Sequence 24815, A
82	16.8	84.0	7354	12 US-11-096-568-10	Sequence 10, Appl
83	16.4	82.0	18	7 US-10-925-872-47	Sequence 47, Appl
84	16.4	82.0	18	12 US-11-173-938-167	Sequence 167, Appl
85	16.4	82.0	19	7 US-10-925-872-45	Sequence 45, Appl
86	16.4	82.0	19	8 US-10-619-279-76	Sequence 76, Appl
87	16.4	82.0	19	12 US-11-127-654-87	Sequence 87, Appl
88	16.4	82.0	19	12 US-11-173-938-89	Sequence 89, Appl
89	16.4	82.0	19	12 US-11-173-938-90	Sequence 90, Appl
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91	16.4	82.0	19	12 US-11-173-938-92	Sequence 92, Appl
92	16.4	82.0	19	12 US-11-173-938-92	Sequence 92, Appl
93	16.4	82.0	19	12 US-11-173-938-93	Sequence 93, Appl

94	16.4	82.0	19	12	US-11-173-938-94	Sequence 94, Appl
95	16.4	82.0	19	12	US-11-173-938-95	Sequence 95, Appl
96	16.4	82.0	19	12	US-11-173-938-96	Sequence 96, Appl
97	16.4	82.0	19	12	US-11-173-938-97	Sequence 97, Appl
98	16.4	82.0	19	12	US-11-173-938-98	Sequence 98, Appl
99	16.4	82.0	19	12	US-11-173-938-99	Sequence 99, Appl
100	16.4	82.0	19	12	US-11-173-938-100	Sequence 100, Appl

ALIGNMENTS

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RESULT 1
US-10-533-634-43
; Sequence 43, Application US/10533634
; Publication No. US20060019239A1
; GENERAL INFORMATION:
; APPLICANT: THE UNITED STATES OF AMERICA AS REPRESENTED BY THE
; APPLICANT: SECRETARY OF THE DEPARTMENT OF HEALTH AND HUMAN SERVICES
; APPLICANT: Kliman, Dennis M.
; APPLICANT: Irvine, Bruce
; APPLICANT: Verthelyi, Daniela
; TITLE OF INVENTION: METHOD OF PREVENTING INFECTIONS FROM BIOTERRORISM AGENTS WITH
; TITLE OF INVENTION: IMMUNOSTIMULATORY CpG OLIGONUCLEOTIDES
; FILE REFERENCE: 4239-67021-06
; CURRENT APPLICATION NUMBER: US/10/533,634
; PRIOR FILING DATE: 2005-04-29
; PRIOR APPLICATION NUMBER: PCT/US2003/034523
; PRIOR FILING DATE: 2003-10-31
; PRIOR APPLICATION NUMBER: US 60/422,964
; PRIOR FILING DATE: 2002-11-01
; NUMBER OF SEQ ID NOS: 199
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: K oligonucleotide
US-10-533-634-43

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  TCCATGACGTTCTGTGACGTT 20
Db      1  TCCATGACGTTCTGTGACGTT 20

RESULT 2
US-10-469-561-5
; Sequence 5, Application US/10469561
; Publication No. US20050260216A1
; GENERAL INFORMATION:
; APPLICANT: Claire Ashman
; APPLICANT: James Scott Crowe
; APPLICANT: Jonathan Henry Ellis
; APPLICANT: Alan Peter Lewis
; TITLE OF INVENTION: VACCINE
; FILE REFERENCE: PG435505W
; CURRENT APPLICATION NUMBER: US/10/469,561
; PRIOR FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: unknown
; FEATURE:
; OTHER INFORMATION: synthetic immunostimulatory oligonucleotide
US-10-469-561-5
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Query Match	100.0%;	Score 20;	DB 8;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 0.11;		
Matches	20;	Conservative 0;	Mismatches 0;	Indels 0; Gaps 0;

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QY      1  TCCATGACGTTCTGTGACGTT 20
Db      1  TCCATGACGTTCTGTGACGTT 20
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US-10-619-279-10
; Sequence 10, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Klieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; PRIOR FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1994-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-10
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Query Match	100.0%;	Score 20;	DB 8;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 0.11;		
Matches	20;	Conservative 0;	Mismatches 0;	Indels 0; Gaps 0;

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QY      1  TCCATGACGTTCTGTGACGTT 20
Db      1  TCCATGACGTTCTGTGACGTT 20
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RESULT 4
US-10-435-656-10
; Sequence 10, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Klieg, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; PRIOR FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-10
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US-10-435-656-10

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 5

US-10-881-661-3
Sequence 3, Application US/10881661
Publication No. US2006002928A1
GENERAL INFORMATION:
APPLICANT: Radhakrishnan, Suresh
APPLICANT: Pease, Larry R.
APPLICANT: Iijima, Koji
APPLICANT: Kita, Hirohito
TITLE OF INVENTION: Methods And Molecules For Modulating An Immune Response
FILE REFERENCE: 07039-520001
CURRENT APPLICATION NUMBER: US/10/881,661
CURRENT FILING DATE: 2004-06-30
NUMBER OF SEQ ID NOS: 5
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Oligonucleotide
US-10-881-661-3

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 6

US-11-081-882-1
Sequence 1, Application US/11081882
Publication No. US20060029621A1
GENERAL INFORMATION:
APPLICANT: Granoff, Dan
APPLICANT: Moe, Gregory R.
TITLE OF INVENTION: VACCINES FOR BROAD SPECTRUM PROTECTION
TITLE OF INVENTION: AGAINST DISEASES CAUSED BY NEISSERIA MENINGITIDIS
FILE REFERENCE: CHOR001
CURRENT APPLICATION NUMBER: US/11/081,882
CURRENT FILING DATE: 2005-03-15
PRIOR APPLICATION NUMBER: US/09/917,222
PRIOR FILING DATE: 2001-06-27
PRIOR APPLICATION NUMBER: US 60/221,495
PRIOR FILING DATE: 2000-07-27
NUMBER OF SEQ ID NOS: 1
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Cpg nucleotides
US-11-081-882-1

Query Match 100.0%; Score 20; DB 9; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 7

US-11-025-858-3
Sequence 3, Application US/11025858
Publication No. US20050250723A1
GENERAL INFORMATION:
APPLICANT: Hoerr, Ingmar
APPLICANT: Von Der Mulde, Florian
APPLICANT: Pascolo, Steve
TITLE OF INVENTION: Immunostimulation by chemically modified RNA
FILE REFERENCE: Curevac GmbH (2793-1-002)
CURRENT APPLICATION NUMBER: US/11/025,858
CURRENT FILING DATE: 2004-12-28
PRIOR APPLICATION NUMBER: PCT/EP2003/007175
PRIOR FILING DATE: 2003-07-03
PRIOR APPLICATION NUMBER: DE 10229872.6
PRIOR FILING DATE: 2002-07-03
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.3
SEQ ID NO 3
LENGTH: 20
TYPE: RNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide, Cpg RNA 1826
US-11-025-858-3

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 65.0%; Pred. No. 0.11;
Matches 13; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
Db 1 UCCAUAGACGUCCUGACGU 20

RESULT 8

US-11-025-858-7
Sequence 7, Application US/11025858
Publication No. US20050250723A1
GENERAL INFORMATION:
APPLICANT: Hoerr, Ingmar
APPLICANT: Von Der Mulde, Florian
APPLICANT: Pascolo, Steve
TITLE OF INVENTION: Immunostimulation by chemically modified RNA
FILE REFERENCE: Curevac GmbH (2793-1-002)
CURRENT APPLICATION NUMBER: US/11/025,858
CURRENT FILING DATE: 2004-12-28
PRIOR APPLICATION NUMBER: PCT/EP2003/007175
PRIOR FILING DATE: 2003-07-03
PRIOR APPLICATION NUMBER: DE 10229872.6
PRIOR FILING DATE: 2002-07-03
NUMBER OF SEQ ID NOS: 8
SOFTWARE: PatentIn version 3.3
SEQ ID NO 7
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide, Cpg DNA 1826
US-11-025-858-7

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

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RESULT 9
US-11-127-654-63
; Sequence 63, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 63
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-63
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Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1  TCCATGACGTTCTCTGACGTT 20
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Db       1  TCCATGACGTTCTCTGACGTT 20
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RESULT 10
US-11-127-654-82
; Sequence 82, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 82
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (8)..(8)
; OTHER INFORMATION: m5c
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (17)..(17)
; OTHER INFORMATION: m5c
US-11-127-654-82
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Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
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Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1  TCCATGACGTTCTCTGACGTT 20
         |||||
Db       1  TCCATGACGTTCTCTGACGTT 20
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RESULT 11
US-11-127-654-130
; Sequence 130, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 130
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-130
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Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY      1  TCCATGACGTTCTCTGACGTT 20
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Db       1  TCCATGACGTTCTCTGACGTT 20
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RESULT 12
US-11-127-654-145
; Sequence 145, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; TITLE OF INVENTION: INFLAMMATORY DISEASES
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 145
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-145
```

```
Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTCTGACGTT 20
```

Db 1 TCCATGACGTTCTGACGTT 20

RESULT 13
US-11-127-654-146
; Sequence 146, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 146
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-146

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 14
US-11-127-654-292
; Sequence 292, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 292
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-292

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 15
US-11-127-654-916
; Sequence 916, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 916
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-916

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 16
US-11-154-324-1
; Sequence 1, Application US/11154324
; Publication No. US2005025124A1
; GENERAL INFORMATION:
; APPLICANT: HOUGHTON, Michael
; APPLICANT: COATES, Steve
; APPLICANT: O'HAGAN, Derek
; TITLE OF INVENTION: HCV E1E2 VACCINE COMPOSITIONS
; FILE REFERENCE: 2302-17206
; CURRENT APPLICATION NUMBER: US/11/154,324
; CURRENT FILING DATE: 2005-06-16
; PRIOR APPLICATION NUMBER: US/10/187,257
; PRIOR FILING DATE: 2002-06-28
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Cpg oligonucleotide
US-11-154-324-1

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 17
US-11-089-426-22
; Sequence 22, Application US/11089426
; Publication No. US20050261229A1

```
/ GENERAL INFORMATION:
/ APPLICANT: Gillies, Stephen D.
/ APPLICANT: Lo, Kin-Ming
/ APPLICANT: Mesoloweki, John
/ TITLE OF INVENTION: Fc Fusion Proteins For Enhancing the Immunogenicity of
/ TITLE OF INVENTION: Protein and Peptide Antigens
/ FILE REFERENCE: LEX-007
/ CURRENT APPLICATION NUMBER: US/11/089,426
/ CURRENT FILING DATE: 2005-03-24
/ PRIOR APPLICATION NUMBER: US/09/621,268
/ PRIOR FILING DATE: 2000-07-21
/ PRIOR FILING DATE: 1999-07-21
/ PRIOR APPLICATION NUMBER: US 60/144,965
/ NUMBER OF SEQ ID NOS: 22
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 22
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial
/ OTHER INFORMATION: Sequence:oligodeoxynucleotide that may be used as
/ OTHER INFORMATION: an adjuvant
US-11-089-426-22
```

```
Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTCTGACGTT 20
        |||||
Db       1  TCCATGACGTTCTCTGACGTT 20
```

```
RESULT 18
US-11-134-918-10
/ Sequence 10, Application US/11/34918
/ Publication No. US20050267064A1
/ GENERAL INFORMATION:
/ APPLICANT: Kriegl, Arthur M.
/ APPLICANT: Kline, Joel N.
/ APPLICANT: Klimman, Dennis
/ APPLICANT: Steinberg, Alfred D.
/ TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
/ FILE REFERENCE: C1039/7048 (AWS)
/ CURRENT APPLICATION NUMBER: US/11/134,918
/ CURRENT FILING DATE: 2005-05-23
/ PRIOR APPLICATION NUMBER: US/09/818,918
/ PRIOR FILING DATE: 2001-03-27
/ PRIOR APPLICATION NUMBER: US 08/276,358
/ PRIOR FILING DATE: 1994-07-15
/ PRIOR APPLICATION NUMBER: US 08/386,063
/ PRIOR FILING DATE: 1995-02-07
/ PRIOR APPLICATION NUMBER: US 08/738,652
/ PRIOR FILING DATE: 1996-10-30
/ NUMBER OF SEQ ID NOS: 56
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 10
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-10
```

```
Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTCTGACGTT 20
        |||||
Db       1  TCCATGACGTTCTCTGACGTT 20
```

```
RESULT 19
US-11-031-460-10
/ Sequence 10, Application US/11/031460
/ Publication No. US2005027609A1
/ GENERAL INFORMATION:
/ APPLICANT: Kriegl, Arthur M.
/ APPLICANT: Kline, Joel N.
/ APPLICANT: Klimman, Dennis
/ APPLICANT: Steinberg, Alfred D.
/ TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
/ FILE REFERENCE: C1039/7048 (AWS)
/ CURRENT APPLICATION NUMBER: US/11/031,460
/ CURRENT FILING DATE: 2005-01-07
/ PRIOR APPLICATION NUMBER: US/09/818,918
/ PRIOR FILING DATE: 2001-03-27
/ PRIOR APPLICATION NUMBER: US 08/276,358
/ PRIOR FILING DATE: 1994-07-15
/ PRIOR APPLICATION NUMBER: US 08/386,063
/ PRIOR FILING DATE: 1995-02-07
/ PRIOR APPLICATION NUMBER: US 08/738,652
/ PRIOR FILING DATE: 1996-10-30
/ NUMBER OF SEQ ID NOS: 56
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 10
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-10
```

```
Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTCTGACGTT 20
        |||||
Db       1  TCCATGACGTTCTCTGACGTT 20
```

```
RESULT 20
US-11-087-177-45
/ Sequence 45, Application US/11/087177
/ Publication No. US20050276756A1
/ GENERAL INFORMATION:
/ APPLICANT: Soo Hoo, William
/ TITLE OF INVENTION: COMPOSITIONS AS ADJUVANTS TO IMPROVE
/ TITLE OF INVENTION: IMMUNE RESPONSES TO VACCINES AND METHODS OF USE
/ FILE REFERENCE: 69247-018
/ CURRENT APPLICATION NUMBER: US/11/087,177
/ CURRENT FILING DATE: 2005-03-22
/ PRIOR APPLICATION NUMBER: 60/555,827
/ PRIOR FILING DATE: 2004-03-24
/ PRIOR APPLICATION NUMBER: 60/582,479
/ PRIOR FILING DATE: 2004-06-23
/ NUMBER OF SEQ ID NOS: 45
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 45
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: synthetic CpG oligonucleotide
/ NAME/KEY: modified base
/ LOCATION: (1)...(19)
/ OTHER INFORMATION: phosphorochliated bases
US-11-087-177-45
```

```
Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

Qy 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 21

US-11-114-325-1
; Sequence 1, Application US/11114325
; Publication No. US20050287170A1
; GENERAL INFORMATION:
; APPLICANT: Lieberman, Michael
; APPLICANT: Clements, David
; APPLICANT: Ogata, Steven
; APPLICANT: Nakano, Bileen
; APPLICANT: Leung, Julia
; APPLICANT: Humphrey, Tom
; TITLE OF INVENTION: RECOMBINANT VACCINE AGAINST FLAVIVIRUS
; FILE REFERENCE: 247332001100
; CURRENT APPLICATION NUMBER: US/11/114,325
; PRIOR FILING DATE: 2005-04-25
; PRIOR APPLICATION NUMBER: US/10/730,776
; PRIOR FILING DATE: 2003-12-08
; PRIOR APPLICATION NUMBER: 60/432,865
; PRIOR FILING DATE: 2002-12-11
; PRIOR APPLICATION NUMBER: 60/493,312
; PRIOR FILING DATE: 2003-08-06
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligodeoxyribonucleotide
US-11-114-325-1

Query Match

Best Local Similarity 100.0%; Score 20; DB 12; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 22

US-11-033-039-906
; Sequence 906, Application US/11033039
; Publication No. US20060002947A1
; GENERAL INFORMATION:
; APPLICANT: HUMPHREYS, ROBERT
; APPLICANT: XU, MINZHEN
; TITLE OF INVENTION: LI-KEY/ANTIGENIC EPITOPE HYBRID PEPTIDE VACCINES
; FILE REFERENCE: BEH-2017US01
; CURRENT APPLICATION NUMBER: US/11/033,039
; PRIOR FILING DATE: 2005-01-11
; PRIOR APPLICATION NUMBER: 10/245,871
; PRIOR FILING DATE: 2002-09-17
; PRIOR APPLICATION NUMBER: 10/197,000
; PRIOR FILING DATE: 2002-07-17
; PRIOR APPLICATION NUMBER: 09/396,813
; PRIOR FILING DATE: 1999-09-14
; NUMBER OF SEQ ID NOS: 1452
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 906
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: nucleotide sequence

US-11-033-039-906

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 23

US-11-067-587-10
; Sequence 10, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klimmen, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; PRIOR FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-10

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 24

US-11-141-690-3
; Sequence 3, Application US/11141690
; Publication No. US20060002949A1
; GENERAL INFORMATION:
; APPLICANT: Glenn, Gregory M
; APPLICANT: Alving, Carl R
; TITLE OF INVENTION: TRANSCUTANEOUS IMMUNIZATION WITHOUT HETEROLOGOUS ADJUVANT
; FILE REFERENCE: 056707-5003-01
; CURRENT APPLICATION NUMBER: US/11/141,690
; PRIOR FILING DATE: 2005-06-01
; PRIOR APPLICATION NUMBER: US 09/337,746
; PRIOR FILING DATE: 1999-06-22
; PRIOR APPLICATION NUMBER: US 08/896,085
; PRIOR FILING DATE: 1997-07-17
; PRIOR APPLICATION NUMBER: US 08/749,164
; PRIOR FILING DATE: 1996-11-14
; PRIOR APPLICATION NUMBER: US 09/257,188
; PRIOR FILING DATE: 1999-02-25
; PRIOR APPLICATION NUMBER: US 09/309,881
; PRIOR FILING DATE: 1999-05-11
; PRIOR APPLICATION NUMBER: US 09/311,720

```
/ PRIOR FILING DATE: 1999-05-14
/ PRIOR APPLICATION NUMBER: PCT/US97/21324
/ PRIOR FILING DATE: 1997-11-14
/ PRIOR APPLICATION NUMBER: US 60/090,169
/ PRIOR FILING DATE: 1998-06-22
/ NUMBER OF SEQ ID NOS: 3
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 3
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Oligonucleotide
US-11-141-690-3

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 25
US-11-178-316-19
/ Sequence 19, Application US/11178316
/ Publication No. US20060009391A1
/ GENERAL INFORMATION:
/ APPLICANT: Hefenfelder, Steven H. and McCoy, Sharon L.
/ TITLE OF INVENTION: METHOD AND PEPTIDE FOR REGULATING CELLULAR ACTIVITY
/ FILE REFERENCE: US 1435/05 (VA)
/ CURRENT APPLICATION NUMBER: US/11/178,316
/ PRIOR FILING DATE: 2005-07-12
/ PRIOR APPLICATION NUMBER: 60/586,701
/ PRIOR FILING DATE: 2004-07-12
/ NUMBER OF SEQ ID NOS: 21
/ SEQ ID NO 19
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthesized. Obtained from a commercial source.
US-11-178-316-19

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 26
US-11-099-683-61
/ Sequence 61, Application US/11099683
/ Publication No. US20060019916A1
/ GENERAL INFORMATION:
/ APPLICANT: Kriegl, Arthur
/ APPLICANT: Vollmer, Jörg
/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
/ FILE REFERENCE: C1037,7004/US01
/ CURRENT APPLICATION NUMBER: US/11/099,683
/ PRIOR FILING DATE: 2005-04-04
/ PRIOR APPLICATION NUMBER: US 60/558,951
/ PRIOR FILING DATE: 2004-04-02
/ NUMBER OF SEQ ID NOS: 143
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 61
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
```

```
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
/ FEATURE:
/ NAME/KEY: misc feature
/ LOCATION: (1)..(20)
/ OTHER INFORMATION: where the linkages between bases are phosphorochiclate linkages
US-11-099-683-61

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 27
US-10-482-112D-2
/ Sequence 2, Application US/10482112D
/ Publication No. US20060029655A1
/ GENERAL INFORMATION:
/ APPLICANT: Barenholz, Yechezkel
/ TITLE OF INVENTION: A Method for Preparation of Vesicles Loaded with Biological
/ FILE REFERENCE: 25895 (1506377)
/ CURRENT APPLICATION NUMBER: US/10/482,112D
/ PRIOR FILING DATE: 2003-12-24
/ PRIOR APPLICATION NUMBER: PCT/IL02/00506
/ PRIOR FILING DATE: 2002-06-25
/ NUMBER OF SEQ ID NOS: 3
/ SOFTWARE: PatentIn version 3.3
/ SEQ ID NO 2
/ LENGTH: 23
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: The sequence is an immunostimulatory oligodeoxy nucleotide
/ OTHER INFORMATION: (ISS-ODN) No. 51997, endotoxin free, obtained from the
/ OTHER INFORMATION: Weizmann Institute, Israel
US-10-482-112D-2

Query Match          100.0%; Score 20; DB 7; Length 23;
Best Local Similarity 100.0%; Pred. No. 0.11;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
   |||||
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 28
US-11-127-654-221
/ Sequence 221, Application US/11127654
/ Publication No. US20050250726A1
/ GENERAL INFORMATION:
/ APPLICANT: Kriegl, Arthur M.
/ APPLICANT: Berg, Daniel J.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
/ FILE REFERENCE: C1039,7006/US01
/ CURRENT APPLICATION NUMBER: US/11/127,654
/ PRIOR FILING DATE: 2005-05-12
/ PRIOR APPLICATION NUMBER: US 10/112,653
/ PRIOR FILING DATE: 2002-03-29
/ PRIOR APPLICATION NUMBER: US 60/279,642
/ PRIOR FILING DATE: 2001-03-29
/ NUMBER OF SEQ ID NOS: 1040
/ SOFTWARE: PatentIn version 3.2
/ SEQ ID NO 221
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
```


FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-221

Query Match 92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 0.87;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCGACGTT 20
 |||||
DB 1 TCCATGACGTTCTCGCGTT 20

RESULT 29
US-10-750-185-47485/C
Sequence 47485, Application US/10750185
Publication No. US20050260603A1
GENERAL INFORMATION:
APPLICANT: MMI GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Dennis
TITLE OF INVENTION: COMPOSITIONS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: MM1100-2
CURRENT APPLICATION NUMBER: US/10/750,185
PRIORITY FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31
NUMBER OF SEQ ID NOS: 64922
SOFTWARE: PatentIn version 3.1
SEQ ID NO 47485
LENGTH: 1191
TYPE: DNA
ORGANISM: Bovine 1986681256760
US-10-750-185-47485

Query Match 92.0%; Score 18.4; DB 8; Length 1191;
Best Local Similarity 95.0%; Pred. No. 1.7;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCGACGTT 20
 |||||
DB 205 TCCATGACGTTCTCGATGTT 186

RESULT 30
US-10-750-623-47485/C
Sequence 47485, Application US/10750623
Publication No. US20050287531A1
GENERAL INFORMATION:
APPLICANT: MMI GENOMICS, INC.
APPLICANT: DENISE, Sue K.
APPLICANT: KERR, Richard
APPLICANT: ROSENFELD, David
APPLICANT: HOLM, Tom
APPLICANT: BATES, Stephen
APPLICANT: FANTIN, Dennis
TITLE OF INVENTION: METHODS AND SYSTEMS FOR INFERRING BOVINE TRAITS
FILE REFERENCE: MM1100-1
CURRENT APPLICATION NUMBER: US/10/750,623
PRIORITY FILING DATE: 2003-12-31
PRIOR APPLICATION NUMBER: US 60/437,482
PRIOR FILING DATE: 2002-12-31
NUMBER OF SEQ ID NOS: 64922
SOFTWARE: PatentIn version 3.1
SEQ ID NO 47485
LENGTH: 1191
TYPE: DNA
ORGANISM: Bovine 1986681256760
US-10-750-623-47485

Query Match 92.0%; Score 18.4; DB 8; Length 1191;
Best Local Similarity 95.0%; Pred. No. 1.7;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCGACGTT 20
 |||||
DB 205 TCCATGACGTTCTCGATGTT 186

RESULT 31
US-10-497-591A-37
Sequence 37, Application US/10497591A
Publication No. US20050250716A1
GENERAL INFORMATION:
APPLICANT: SCHMIDT, WALTER
APPLICANT: SCHELLACK, CAROLA
APPLICANT: EGYED, ALENA
APPLICANT: LINGNAU, KAREN
TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
FILE REFERENCE: SONN.045US
CURRENT APPLICATION NUMBER: US/10/497,591A
PRIORITY FILING DATE: 2004-06-03
PRIOR APPLICATION NUMBER: PCT/EP02/13791
PRIOR FILING DATE: 2002-12-05
PRIOR APPLICATION NUMBER: A 1924/2001
PRIOR FILING DATE: 2001-12-07
NUMBER OF SEQ ID NOS: 113
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 37
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE: Description of Artificial Sequence: Synthetic
OTHER INFORMATION: Primer
NAME/KEY: modified base
LOCATION: (9)-(118)
OTHER INFORMATION: n = inosine or uracil
US-10-497-591A-37

Query Match 90.0%; Score 18; DB 8; Length 20;
Best Local Similarity 90.0%; Pred. No. 1.5;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCGACGTT 20
 |||||
DB 1 TCCATGACNTTCTCGACNTT 20

RESULT 32
US-10-497-591A-38
Sequence 38, Application US/10497591A
Publication No. US20050250716A1
GENERAL INFORMATION:
APPLICANT: SCHMIDT, WALTER
APPLICANT: SCHELLACK, CAROLA
APPLICANT: EGYED, ALENA
APPLICANT: LINGNAU, KAREN
TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
FILE REFERENCE: SONN.045US
CURRENT APPLICATION NUMBER: US/10/497,591A
PRIORITY FILING DATE: 2004-06-03
PRIOR APPLICATION NUMBER: PCT/EP02/13791
PRIOR FILING DATE: 2002-12-05
PRIOR APPLICATION NUMBER: A 1924/2001
PRIOR FILING DATE: 2001-12-07
NUMBER OF SEQ ID NOS: 113
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 38
LENGTH: 20
TYPE: DNA


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; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-497-591A-12
```

```

Query Match      84.0%; Score 16.8; DB 8; Length 20;
Best Local Similarity 90.0%; Pred. No. 7;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTGACGTT 20
          |||||
Db      1  TCCATGACGTTCTGATGCT 20
```

```

RESULT 37
US-10-469-561-9
; Sequence 9, Application US/10469561
; Publication No. US20050260216A1
; GENERAL INFORMATION:
; APPLICANT: Claire Ashman
; APPLICANT: James Scott Crowe
; APPLICANT: Jonathan Henry Ellis
; APPLICANT: Alan Peter Lewis
; TITLE OF INVENTION: VACCINE
; FILE REFERENCE: P643505W
; CURRENT APPLICATION NUMBER: US/10/469,561
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 20
; TYPE: DNA
; ORGANISM: unknown
; FEATURE:
; OTHER INFORMATION: synthetic immunostimulatory oligonucleotide
US-10-469-561-9
```

```

Query Match      84.0%; Score 16.8; DB 8; Length 20;
Best Local Similarity 90.0%; Pred. No. 7;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTGACGTT 20
          |||||
Db      1  TCCATGACGTTCTGATGCT 20
```

```

RESULT 38
US-10-619-279-7
; Sequence 7, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
```

```

; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-7
```

```

Query Match      84.0%; Score 16.8; DB 8; Length 20;
Best Local Similarity 90.0%; Pred. No. 7;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTGACGTT 20
          |||||
Db      1  TCCATGACGTTCTGATGCT 20
```

```

RESULT 39
US-10-619-279-73
; Sequence 73, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 73
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-73
```

```

Query Match      84.0%; Score 16.8; DB 8; Length 20;
Best Local Similarity 90.0%; Pred. No. 7;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTGACGTT 20
          |||||
Db      1  TCCATGACGTTCTGATGCT 20
```

```

RESULT 40
US-10-435-656-7
; Sequence 7, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kline, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
```

```

: PRIOR APPLICATION NUMBER: US 08/386,063
: PRIOR FILING DATE: 1995-02-07
: PRIOR APPLICATION NUMBER: US 08/738,652
: PRIOR FILING DATE: 1996-10-30
: NUMBER OF SEQ ID NOS: 56
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO 7
: LENGTH: 20
: TYPE: DNA
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-7

```

Query Match	84.0%;	Score 16.8;	DB 8;	Length 20;
Best Local Similarity	90.0%;	Pred. No. 7;		
Matches 18;	Conservative	0;	Mismatches 2;	Indels 0;
			Gaps	0;

Qy	1	TCCATGACGTTCCCTGACGTT	20
Db	1	TCCATGACGTTCCCTGATGCT	20

Search completed: March 8, 2006, 21:10:38
Job time : 308.113 secs

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 19:48:19 ; Search time 419.057 Seconds
(without alignments)
394.666 Million cell updates/sec

Title: US-09-337-584-10
Perfect score: 20
Sequence: 1 tccatgacgtctctgacgt 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Published Applications NA.Main:*
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2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
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5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
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8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match Length	ID	Description
1	20	100.0	20 3 US-09-760-506-3	Sequence 3, App1
2	20	100.0	20 3 US-09-768-012-3	Sequence 3, App1
3	20	100.0	20 3 US-09-824-468-100	Sequence 100, App
4	20	100.0	20 3 US-09-824-468-105	Sequence 105, App
5	20	100.0	20 3 US-09-949-194-1	Sequence 1, App1
6	20	100.0	20 3 US-09-917-222-1	Sequence 1, App1
7	20	100.0	20 3 US-09-800-266A-96	Sequence 86, App1
8	20	100.0	20 3 US-09-800-266A-90	Sequence 86, App1
9	20	100.0	20 3 US-09-895-007A-86	Sequence 86, App1
10	20	100.0	20 3 US-09-895-007A-90	Sequence 90, App1
11	20	100.0	20 3 US-09-920-313-86	Sequence 86, App1
12	20	100.0	20 3 US-09-920-313-90	Sequence 90, App1
13	20	100.0	20 3 US-09-888-326-560	Sequence 560, App
14	20	100.0	20 3 US-09-888-326-561	Sequence 561, App
15	20	100.0	20 3 US-09-888-326-562	Sequence 562, App
16	20	100.0	20 3 US-09-888-326-563	Sequence 563, App
17	20	100.0	20 3 US-09-818-918-10	Sequence 10, App1
18	20	100.0	20 3 US-09-931-583-47	Sequence 47, App1
19	20	100.0	20 3 US-09-776-479-69	Sequence 69, App1
20	20	100.0	20 3 US-09-776-479-137	Sequence 137, App
21	20	100.0	20 3 US-09-776-479-152	Sequence 152, App
22	20	100.0	20 3 US-09-776-479-153	Sequence 153, App
23	20	100.0	20 3 US-09-776-479-223	Sequence 223, App

24	20	100.0	20 3 US-09-776-479-302	Sequence 302, App
25	20	100.0	20 3 US-09-776-479-948	Sequence 948, App
26	20	100.0	20 3 US-09-776-479-949	Sequence 949, App
27	20	100.0	20 3 US-09-776-479-950	Sequence 950, App
28	20	100.0	20 3 US-09-776-479-951	Sequence 951, App
29	20	100.0	20 3 US-09-776-479-952	Sequence 952, App
30	20	100.0	20 3 US-09-776-479-953	Sequence 953, App
31	20	100.0	20 3 US-09-776-479-954	Sequence 954, App
32	20	100.0	20 3 US-09-776-479-955	Sequence 955, App
33	20	100.0	20 3 US-09-776-479-956	Sequence 956, App
34	20	100.0	20 3 US-09-776-479-957	Sequence 957, App
35	20	100.0	20 3 US-09-776-479-958	Sequence 958, App
36	20	100.0	20 3 US-09-776-479-1023	Sequence 1023, App
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39	20	100.0	20 3 US-09-984-365-42	Sequence 42, App1
40	20	100.0	20 3 US-09-776-479-69	Sequence 69, App1
41	20	100.0	20 3 US-09-776-479-1137	Sequence 1137, App
42	20	100.0	20 3 US-09-776-479-1152	Sequence 1152, App
43	20	100.0	20 3 US-09-776-479-1153	Sequence 1153, App
44	20	100.0	20 3 US-09-776-479-223	Sequence 223, App
45	20	100.0	20 3 US-09-776-479-302	Sequence 302, App
46	20	100.0	20 3 US-09-776-479-948	Sequence 948, App
47	20	100.0	20 3 US-09-776-479-949	Sequence 949, App
48	20	100.0	20 3 US-09-776-479-950	Sequence 950, App
49	20	100.0	20 3 US-09-776-479-951	Sequence 951, App
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54	20	100.0	20 3 US-09-776-479-956	Sequence 956, App
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58	20	100.0	20 3 US-09-965-101-51	Sequence 51, App1
59	20	100.0	20 3 US-09-965-101-55	Sequence 55, App1
60	20	100.0	20 3 US-09-965-101-58	Sequence 58, App1
61	20	100.0	20 3 US-10-023-909A-86	Sequence 86, App1
62	20	100.0	20 3 US-10-023-909A-90	Sequence 90, App1
63	20	100.0	20 3 US-10-056-420-3	Sequence 3, App1
64	20	100.0	20 3 US-10-164-776-16	Sequence 16, App1
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66	20	100.0	20 3 US-10-112-653-86	Sequence 86, App1
67	20	100.0	20 3 US-10-112-653-130	Sequence 130, App
68	20	100.0	20 3 US-10-112-653-145	Sequence 145, App
69	20	100.0	20 3 US-10-112-653-146	Sequence 146, App
70	20	100.0	20 3 US-10-112-653-292	Sequence 292, App
71	20	100.0	20 3 US-10-112-653-916	Sequence 916, App
72	20	100.0	20 3 US-10-017-995-69	Sequence 69, App1
73	20	100.0	20 3 US-10-017-995-137	Sequence 137, App
74	20	100.0	20 3 US-10-017-995-152	Sequence 152, App
75	20	100.0	20 3 US-10-017-995-153	Sequence 153, App
76	20	100.0	20 3 US-10-017-995-223	Sequence 223, App
77	20	100.0	20 3 US-10-017-995-302	Sequence 302, App
78	20	100.0	20 3 US-10-017-995-948	Sequence 948, App
79	20	100.0	20 3 US-10-017-995-949	Sequence 949, App
80	20	100.0	20 3 US-10-017-995-950	Sequence 950, App
81	20	100.0	20 3 US-10-017-995-951	Sequence 951, App
82	20	100.0	20 3 US-10-017-995-952	Sequence 952, App
83	20	100.0	20 3 US-10-017-995-953	Sequence 953, App
84	20	100.0	20 3 US-10-017-995-954	Sequence 954, App
85	20	100.0	20 3 US-10-017-995-955	Sequence 955, App
86	20	100.0	20 3 US-10-017-995-956	Sequence 956, App
87	20	100.0	20 3 US-10-017-995-957	Sequence 957, App
88	20	100.0	20 3 US-10-017-995-958	Sequence 958, App
89	20	100.0	20 3 US-10-017-995-1023	Sequence 1023, App
90	20	100.0	20 3 US-10-300-247-86	Sequence 86, App1
91	20	100.0	20 3 US-10-300-247-90	Sequence 90, App1
92	20	100.0	20 3 US-10-161-229-97	Sequence 97, App1
93	20	100.0	20 3 US-10-323-338-1	Sequence 1, App1
94	20	100.0	20 3 US-10-238-607-42	Sequence 42, App1
95	20	100.0	20 3 US-10-254-102-1	Sequence 1, App1
96	20	100.0	20 3 US-10-290-545-1	Sequence 1, App1

97	20	100.0	20	6	US-10-187-257-1	Sequence 1, Appli
98	20	100.0	20	6	US-10-340-545-16	Sequence 16, Appl
99	20	100.0	20	6	US-10-379-164-1	Sequence 1, Appli
100	20	100.0	20	6	US-10-187-264A-10	Sequence 10, Appl

ALIGNMENTS

RESULT 1
US-09-760-506-3

Sequence 3, Application US/09760506
Publication No. US20010034330A1
GENERAL INFORMATION:
APPLICANT: Kensil, Charlotte
TITLE OF INVENTION: Innate Immunity-Stimulating Compositions of CpG and
FILE REFERENCE: 8449-153-999
CURRENT APPLICATION NUMBER: US/09/760,506
CURRENT FILING DATE: 2002-01-12
PRIOR APPLICATION NUMBER: 60/200,853
PRIOR FILING DATE: 2000-05-01
PRIOR APPLICATION NUMBER: 60/175,840
PRIOR FILING DATE: 2000-01-13
PRIOR APPLICATION NUMBER: 60/128,608
PRIOR FILING DATE: 1999-04-08
PRIOR APPLICATION NUMBER: 60/095,913
PRIOR FILING DATE: 1998-08-10
NUMBER OF SEQ ID NOS: 6
SOFTWARE: PatentIn version 3.0
SEQ ID NO 3
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Motif
US-09-760-506-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 2

US-09-768-012-3
Sequence 3, Application US/09768012
Patent No. US2001004416A1
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for
FILE REFERENCE: C1040/7010/HCL/MAT
CURRENT APPLICATION NUMBER: US/09/768,012
CURRENT FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: US 60/177,461
PRIOR FILING DATE: 2000-01-20
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
NAME/KEY: modified_base
OTHER INFORMATION: Cytosine is unmethylated.
NAME/KEY: modified_base

LOCATION: (17)...(17)
OTHER INFORMATION: Cytosine is unmethylated.
US-09-768-012-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 3

US-09-824-468-100
Sequence 100, Application US/09824468
Patent No. US20020064515A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Methods and Products for Stimulating the
FILE REFERENCE: C1039/7026/HCL
CURRENT APPLICATION NUMBER: US/09/824,468
CURRENT FILING DATE: 2001-04-02
PRIOR APPLICATION NUMBER: 09/286,098
PRIOR FILING DATE: 1999-04-02
NUMBER OF SEQ ID NOS: 105
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 100
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-824-468-100

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 4

US-09-824-468-105
Sequence 105, Application US/09824468
Patent No. US20020064515A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Methods and Products for Stimulating the
FILE REFERENCE: C1039/7026/HCL
CURRENT APPLICATION NUMBER: US/09/824,468
CURRENT FILING DATE: 2001-04-02
PRIOR APPLICATION NUMBER: 09/286,098
PRIOR FILING DATE: 1999-04-02
NUMBER OF SEQ ID NOS: 105
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 105
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-824-468-105

Query Match 100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGTGACGTT 20
Db 1 TCCATGACGTTCTGTGACGTT 20

RESULT 5

US-09-949-194-1
; Sequence 1, Application US/09949194
; Patent No. US20020091097A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TITLE OF INVENTION: Treatment of Sexually Transmitted Diseases
; FILE REFERENCE: C1037/7021 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/949,194
; PRIOR FILING DATE: 2001-09-07
; PRIOR APPLICATION NUMBER: US 60/230,637
; PRIOR FILING DATE: 2000-09-07
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-949-194-1

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGTGACGTT 20
Db 1 TCCATGACGTTCTGTGACGTT 20

RESULT 6

US-09-917-222-1
; Sequence 1, Application US/09917222
; Patent No. US20020110569A1
; GENERAL INFORMATION:
; APPLICANT: Granoff, Dan
; APPLICANT: Moe, Gregory R.
; TITLE OF INVENTION: VACCINES FOR BROAD SPECTRUM PROTECTION
; TITLE OF INVENTION: AGAINST DISEASES CAUSED BY NEISSERIA MENINGITIDIS
; FILE REFERENCE: CHOR001
; CURRENT APPLICATION NUMBER: US/09/917,222
; PRIOR FILING DATE: 2001-07-27
; PRIOR APPLICATION NUMBER: US 60/221,495
; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: CPG nucleotides
US-09-917-222-1

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGTGACGTT 20
Db 1 TCCATGACGTTCTGTGACGTT 20

RESULT 7
US-09-800-266A-86

; Sequence 86, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-86

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGTGACGTT 20
Db 1 TCCATGACGTTCTGTGACGTT 20

RESULT 8

US-09-800-266A-90
; Sequence 90, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; FILE REFERENCE: C1037/7017 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; PRIOR FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-90

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGTGACGTT 20
Db 1 TCCATGACGTTCTGTGACGTT 20

RESULT 9

US-09-895-007A-86
; Sequence 86, Application US/09895007A
; Patent No. US20020165178A1

```
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AMS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-86

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
    |||||
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 10
US-09-895-007A-90
; Sequence 90, Application US/09895007A
; Patent No. US20020165178A1
; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; TREATMENT OF ANEMIA, THROMBOCYTOPENIA, AND NEUTROPENIA
; FILE REFERENCE: C1041/7014 (AMS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; CURRENT FILING DATE: 2001-06-28
; PRIOR FILING DATE: 2000-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-90

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
    |||||
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 11
US-09-920-313-86
; Sequence 86, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TREATMENT OF Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
```

```
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; PRIOR FILING DATE: 2001-08-08
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 86
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-86

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
    |||||
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 12
US-09-920-313-90
; Sequence 90, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; TREATMENT OF Gastric Ulcers
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; CURRENT FILING DATE: 2001-08-01
; PRIOR FILING DATE: 2000-06-22
; PRIOR APPLICATION NUMBER: US 60/222,248
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-90

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
    |||||
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 13
US-09-888-326-560
; Sequence 560, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; TREATMENT OF Gastric Ulcers and Treating Cancer
; FILE REFERENCE: C1039/7052 (AMS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
```


SEQ ID NO 560
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)..
OTHER INFORMATION: phosphorothioate backbone
US-09-888-326-560

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 14
US-09-888-326-561
Sequence 561, Application US/09888326
Publication No. US20030026801A1
GENERAL INFORMATION:
APPLICANT: Weiner, George
APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
FILE REFERENCE: C1039/7052 (AMS)
CURRENT APPLICATION NUMBER: US/09/888,326
PRIORITY FILING DATE: 2001-06-22
PRIORITY FILING DATE: 2000-06-22
PRIORITY FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 848
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 561
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-888-326-561

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 15
US-09-888-326-562
Sequence 562, Application US/09888326
Publication No. US20030026801A1
GENERAL INFORMATION:
APPLICANT: Weiner, George
APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
FILE REFERENCE: C1039/7052 (AMS)
CURRENT APPLICATION NUMBER: US/09/888,326
PRIORITY FILING DATE: 2001-06-22
PRIORITY FILING DATE: 2000-06-22
PRIORITY FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 848
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 562
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)..
OTHER INFORMATION: chimeric phosphorothioate/phosphodiester backbone
US-09-888-326-562

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 16
US-09-888-326-563
Sequence 563, Application US/09888326
Publication No. US20030026801A1
GENERAL INFORMATION:
APPLICANT: Weiner, George
APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
FILE REFERENCE: C1039/7052 (AMS)
CURRENT APPLICATION NUMBER: US/09/888,326
PRIORITY FILING DATE: 2001-06-22
PRIORITY FILING DATE: 2000-06-22
PRIORITY FILING DATE: 2000-06-22
NUMBER OF SEQ ID NOS: 848
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 563
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)..
OTHER INFORMATION: phosphodiester backbone
US-09-888-326-563

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 17
US-09-818-918-10
Sequence 10, Application US/09818918
Publication No. US20030050261A1
GENERAL INFORMATION:
APPLICANT: Kline, Joel N.
APPLICANT: Kline, Arthur M.
APPLICANT: Kline, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/09/818,918
PRIORITY FILING DATE: 2001-03-27
PRIORITY FILING DATE: US 08/276,358
PRIORITY FILING DATE: 1994-07-15
PRIORITY FILING DATE: US 08/386,063
PRIORITY FILING DATE: 1995-02-07
PRIORITY FILING DATE: US 08/738,652
PRIORITY FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56

```
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 10
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-10

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 18
US-09-931-583-47
/ Sequence 47, Application US/09931583
/ Publication No. US20030050263A1
/ GENERAL INFORMATION:
/ APPLICANT: Kries, Arthur
/ APPLICANT: Kliman, Dennis
/ APPLICANT: Steinberg, Alfred
/ TITLE OF INVENTION: Methods and Products for Treating HIV Infection
/ FILE REFERENCE: C1039/7053 (HCL)
/ CURRENT APPLICATION NUMBER: US/09/931,583
/ CURRENT FILING DATE: 2001-08-16
/ PRIOR APPLICATION NUMBER: US 08/276,358
/ PRIOR FILING DATE: 1994-07-15
/ PRIOR APPLICATION NUMBER: US 09/415,142
/ PRIOR FILING DATE: 1999-10-09
/ NUMBER OF SEQ ID NOS: 75
/ SOFTWARE: PatentIn version 3.0
/ SEQ ID NO 47
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ NAME/KEY: misc feature
/ OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-47

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 19
US-09-776-479-69
/ Sequence 69, Application US/09776479
/ Publication No. US20030087848A1
/ GENERAL INFORMATION:
/ APPLICANT: Bratzler, Robert L.
/ APPLICANT: Petersen, Deanna M.
/ APPLICANT: Fourn, Yves
/ TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
/ TITLE OF INVENTION: Treatment of Asthma and Allergy
/ FILE REFERENCE: C1037/7013 (HCL/MAT)
/ CURRENT APPLICATION NUMBER: US/09/776,479
/ CURRENT FILING DATE: 2001-02-02
/ PRIOR APPLICATION NUMBER: US 60/179,991
/ PRIOR FILING DATE: 2000-02-03
/ NUMBER OF SEQ ID NOS: 1093
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 69
/ LENGTH: 20
```

```
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic Sequence
US-09-776-479-69

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 20
US-09-776-479-137
/ Sequence 137, Application US/09776479
/ Publication No. US20030087848A1
/ GENERAL INFORMATION:
/ APPLICANT: Bratzler, Robert L.
/ APPLICANT: Petersen, Deanna M.
/ APPLICANT: Fourn, Yves
/ TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
/ TITLE OF INVENTION: Treatment of Asthma and Allergy
/ FILE REFERENCE: C1037/7013 (HCL/MAT)
/ CURRENT APPLICATION NUMBER: US/09/776,479
/ CURRENT FILING DATE: 2001-02-02
/ PRIOR APPLICATION NUMBER: US 60/179,991
/ PRIOR FILING DATE: 2000-02-03
/ NUMBER OF SEQ ID NOS: 1093
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 137
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic Sequence
US-09-776-479-137

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 21
US-09-776-479-152
/ Sequence 152, Application US/09776479
/ Publication No. US20030087848A1
/ GENERAL INFORMATION:
/ APPLICANT: Bratzler, Robert L.
/ APPLICANT: Petersen, Deanna M.
/ APPLICANT: Fourn, Yves
/ TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
/ TITLE OF INVENTION: Treatment of Asthma and Allergy
/ FILE REFERENCE: C1037/7013 (HCL/MAT)
/ CURRENT APPLICATION NUMBER: US/09/776,479
/ CURRENT FILING DATE: 2001-02-02
/ PRIOR APPLICATION NUMBER: US 60/179,991
/ PRIOR FILING DATE: 2000-02-03
/ NUMBER OF SEQ ID NOS: 1093
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 152
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic Sequence
US-09-776-479-152
```

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 22
US-09-776-479-153
; Sequence 153, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 153
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-153

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 23
US-09-776-479-223
; Sequence 223, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 223
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-223

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 24
US-09-776-479-302
; Sequence 302, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 302
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-302

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 25
US-09-776-479-948
; Sequence 948, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouron, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 948
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-948

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGACGTT 20
|||||
Db 1 TCCATGACGTTCTGACGTT 20

```
RESULT 26
US-09-776-479-949
; Sequence 949, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 949
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-949

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 27
US-09-776-479-950
; Sequence 950, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 950
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-950

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 28
US-09-776-479-951
; Sequence 951, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 951
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-951

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20
```

```
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 951
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-951

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 29
US-09-776-479-952
; Sequence 952, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 952
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-952

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20

RESULT 30
US-09-776-479-953
; Sequence 953, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fournon, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/776,479
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 953
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-953

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGACGTT 20
Db 1 TCCATGACGTTCTCTGACGTT 20
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FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 953
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-953

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 31
US-09-776-479-954
Sequence 954, Application US/09776479
Publication No. US20030087848A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR FILING DATE: 2000-02-03
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 954
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-954

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 32
US-09-776-479-955
Sequence 955, Application US/09776479
Publication No. US20030087848A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR FILING DATE: 2000-02-03
TYPE: DNA

NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 955
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-955

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 33
US-09-776-479-956
Sequence 956, Application US/09776479
Publication No. US20030087848A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR FILING DATE: 2000-02-03
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 956
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-956

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
DB 1 TCCATGACGTTCTGACGTT 20

RESULT 34
US-09-776-479-957
Sequence 957, Application US/09776479
Publication No. US20030087848A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR FILING DATE: 2000-02-03
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 957
LENGTH: 20
TYPE: DNA

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-957

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTGACGTT 20
|||||
DB 1 TCATGACGTTCTGACGTT 20

RESULT 35
US-09-776-479-958
Sequence 958, Application US/09776479
Publication No. US20030087848A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 958
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-958

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTGACGTT 20
|||||
DB 1 TCATGACGTTCTGACGTT 20

RESULT 36
US-09-776-479-1023
Sequence 1023, Application US/09776479
Publication No. US20030087848A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 1023
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-1023

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTGACGTT 20
|||||
DB 1 TCATGACGTTCTGACGTT 20

RESULT 37
US-09-954-987B-83
Sequence 83, Application US/09954987B
Publication No. US20030104523A1
GENERAL INFORMATION:
APPLICANT: Stefan Bauer
APPLICANT: Grayson B. Lipford
APPLICANT: Hermann Wagner
TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
FILE REFERENCE: C1041/7016 (AMS)
CURRENT APPLICATION NUMBER: US/09/954,987B
PRIOR FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: US 60/233,035
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/263,657
PRIOR FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 60/291,726
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 60/300,210
PRIOR FILING DATE: 2001-06-22
NUMBER OF SEQ ID NOS: 230
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 83
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-83

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 5.6;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTGACGTT 20
|||||
DB 1 TCATGACGTTCTGACGTT 20

RESULT 38
US-09-967-464-1
Sequence 1, Application US/09967464
Publication No. US20030138453A1
GENERAL INFORMATION:
APPLICANT: O'Hagan, Derek
APPLICANT: Otten, Gillis
APPLICANT: Donnelly, John J.
APPLICANT: Polo, John M.
APPLICANT: Barnette, Susan
APPLICANT: Singh, Manohan
APPLICANT: Ulmer, Jeffrey
TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF HETEROLOGOUS NUCLEIC ACIDS
FILE REFERENCE: P16269.004
CURRENT APPLICATION NUMBER: US/09/967,464
PRIOR FILING DATE: 2002-04-11
PRIOR APPLICATION NUMBER: 60/236,105
PRIOR FILING DATE: 2000-09-28
PRIOR APPLICATION NUMBER: 60/315,905
PRIOR FILING DATE: 2001-08-30
NUMBER OF SEQ ID NOS: 68
SOFTWARE: PatentIn version 3.1
SEQ ID NO 1

LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Artificial sequence is synthesized
US-09-967-464-1

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCATGACGCTTCCTGACGTT 20
Db 1 TCATGACGCTTCCTGACGTT 20

RESULT 39
US-09-984-365-42
Sequence 42, Application US/09984365
Publication No. US20030224980A1
GENERAL INFORMATION:
APPLICANT: Diamond, Don J
TITLE OF INVENTION: IMMUNO-REACTIVE PEPTIDE CTL EPITOPES OF HUMAN CYTOMEGALOVIRUS
FILE REFERENCE: 1954-384
CURRENT APPLICATION NUMBER: US/09/984,365
CURRENT FILING DATE: 2002-03-13
PRIOR APPLICATION NUMBER: US 09/692170
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: US 09/534639
PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 09/075257
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: US 09/021298
PRIOR FILING DATE: 1998-02-10
PRIOR APPLICATION NUMBER: US 08/950064
PRIOR FILING DATE: 1997-10-14
PRIOR APPLICATION NUMBER: US 08/747488
PRIOR FILING DATE: 1996-11-12
NUMBER OF SEQ ID NOS: 44
SOFTWARE: Patentin version 3.1
SEQ ID NO 42
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: DNA adjuvant containing CpG sequences
US-09-984-365-42

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCATGACGCTTCCTGACGTT 20
Db 1 TCATGACGCTTCCTGACGTT 20

RESULT 40
US-09-776-479-69
Sequence 69, Application US/09776479
Publication No. US20040067902A9
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
APPLICANT: Foulon, Yves
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR FILING DATE: 2000-02-03
NUMBER OF SEQ ID NOS: 1093

SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 69
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-69

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCATGACGCTTCCTGACGTT 20
Db 1 TCATGACGCTTCCTGACGTT 20

Search completed: March 8, 2006, 20:43:21
JOB time : 420.057 secs

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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 01:35:44 ; Search time 89.8113 Seconds
(without alignments)
395.844 Million cell updates/sec

Title: US-09-337-584-10
Perfect score: 20
Sequence: 1 tccatgacgttcctgacgtt 20

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Issued Patents NA: *
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2: /cgn2_6/pdata/1/ina/5_COMB.seq: *
3: /cgn2_6/pdata/1/ina/6A_COMB.seq: *
4: /cgn2_6/pdata/1/ina/6B_COMB.seq: *
5: /cgn2_6/pdata/1/ina/H_COMB.seq: *
6: /cgn2_6/pdata/1/ina/PCUTS_COMB.seq: *
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	2 US-09-133-774-12	Sequence 12, Appl
2	20	100.0	20	3 US-09-303-862-12	Sequence 12, Appl
3	20	100.0	20	3 US-08-738-652-10	Sequence 10, Appl
4	20	100.0	20	3 US-09-030-701-62	Sequence 62, Appl
5	20	100.0	20	3 US-09-286-098-100	Sequence 100, App
6	20	100.0	20	3 US-09-286-098-105	Sequence 105, App
7	20	100.0	20	3 US-08-960-774-10	Sequence 10, Appl
8	20	100.0	20	3 US-09-082-649B-56	Sequence 56, Appl
9	20	100.0	20	3 US-09-082-649B-56	Sequence 56, Appl
10	20	100.0	20	3 US-09-082-649B-56	Sequence 56, Appl
11	20	100.0	20	3 US-09-325-193A-86	Sequence 86, Appl
12	20	100.0	20	3 US-09-325-193A-90	Sequence 90, Appl
13	20	100.0	20	3 US-09-191-170-97	Sequence 97, Appl
14	20	100.0	20	3 US-09-690-921-1	Sequence 1, Appl
15	20	100.0	20	3 US-09-301-829A-1	Sequence 1, Appl
16	20	100.0	20	3 US-09-692-170C-42	Sequence 42, Appl
17	20	100.0	20	3 US-09-337-619-10	Sequence 10, Appl
18	20	100.0	20	3 US-10-405-231A-42	Sequence 42, Appl
19	20	100.0	20	3 US-10-238-607-42	Sequence 42, Appl
20	20	100.0	20	3 US-09-984-365-42	Sequence 42, Appl
21	20	100.0	20	3 US-09-565-906-1	Sequence 1, Appl
22	20	100.0	20	3 US-09-257-188A-2	Sequence 2, Appl
23	20	100.0	20	3 US-09-965-101-51	Sequence 51, Appl
24	20	100.0	20	3 US-09-965-101-56	Sequence 56, Appl

25	20	100.0	20	3 US-09-965-101-58	Sequence 58, Appl
26	20	100.0	20	3 US-10-697-055-42	Sequence 42, Appl
27	20	100.0	20	3 US-10-651-013-14	Sequence 14, Appl
28	20	100.0	20	3 US-09-917-222B-1	Sequence 1, Appl
29	20	100.0	20	3 US-09-954-987B-83	Sequence 83, Appl
30	20	100.0	20	3 US-09-672-126B-83	Sequence 83, Appl
31	20	100.0	20	3 US-09-082-649B-12	Sequence 12, Appl
32	20	100.0	20	3 US-09-082-649B-12	Sequence 12, Appl
33	20	100.0	20	3 US-09-965-101-12	Sequence 13, Appl
34	20	100.0	20	3 US-09-965-101-13	Sequence 13, Appl
35	18.4	92.0	20	3 US-09-954-987B-131	Sequence 131, App
36	17	85.0	17	3 US-09-030-701-39	Sequence 39, Appl
37	17	85.0	17	3 US-09-286-098-70	Sequence 70, Appl
38	17	85.0	17	3 US-08-960-774-70	Sequence 70, Appl
39	17	85.0	17	3 US-09-325-193A-60	Sequence 60, Appl
40	17	85.0	17	3 US-09-191-170-64	Sequence 64, Appl
41	17	85.0	17	3 US-09-337-619-70	Sequence 70, Appl
42	17	85.0	17	3 US-09-954-987B-134	Sequence 34, Appl
43	17	85.0	17	3 US-09-672-126B-50	Sequence 50, Appl
44	16.8	84.0	20	2 US-09-133-774-11	Sequence 11, Appl
45	16.8	84.0	20	3 US-08-386-063-25	Sequence 25, Appl
46	16.8	84.0	20	3 US-09-303-862-11	Sequence 11, Appl
47	16.8	84.0	20	3 US-08-386-063-25	Sequence 25, Appl
48	16.8	84.0	20	3 US-08-738-652-35	Sequence 35, Appl
49	16.8	84.0	20	3 US-08-738-652-44	Sequence 44, Appl
50	16.8	84.0	20	3 US-08-738-652-54	Sequence 54, Appl
51	16.8	84.0	20	3 US-09-030-701-42	Sequence 42, Appl
52	16.8	84.0	20	3 US-09-286-098-24	Sequence 24, Appl
53	16.8	84.0	20	3 US-09-286-098-73	Sequence 73, Appl
54	16.8	84.0	20	3 US-09-286-098-84	Sequence 84, Appl
55	16.8	84.0	20	3 US-08-960-774-7	Sequence 7, Appl
56	16.8	84.0	20	3 US-08-960-774-73	Sequence 73, Appl
57	16.8	84.0	20	3 US-08-960-774-73	Sequence 73, Appl
58	16.8	84.0	20	3 US-09-082-649B-1	Sequence 1, Appl
59	16.8	84.0	20	3 US-09-082-649B-68	Sequence 68, Appl
60	16.8	84.0	20	3 US-09-082-649B-78	Sequence 78, Appl
61	16.8	84.0	20	3 US-09-082-649B-79	Sequence 79, Appl
62	16.8	84.0	20	3 US-09-325-193A-19	Sequence 19, Appl
63	16.8	84.0	20	3 US-09-325-193A-62	Sequence 62, Appl
64	16.8	84.0	20	3 US-09-191-170-24	Sequence 24, Appl
65	16.8	84.0	20	3 US-09-191-170-67	Sequence 67, Appl
66	16.8	84.0	20	3 US-09-191-170-78	Sequence 78, Appl
67	16.8	84.0	20	3 US-09-171-425-5	Sequence 5, Appl
68	16.8	84.0	20	3 US-09-171-425-14	Sequence 14, Appl
69	16.8	84.0	20	3 US-09-690-921-5	Sequence 5, Appl
70	16.8	84.0	20	3 US-09-791-500-7	Sequence 7, Appl
71	16.8	84.0	20	3 US-09-337-619-7	Sequence 7, Appl
72	16.8	84.0	20	3 US-09-337-619-73	Sequence 73, Appl
73	16.8	84.0	20	3 US-09-965-101-1	Sequence 1, Appl
74	16.8	84.0	20	3 US-09-965-101-68	Sequence 68, Appl
75	16.8	84.0	20	3 US-09-965-101-78	Sequence 78, Appl
76	16.8	84.0	20	3 US-09-965-101-79	Sequence 79, Appl
77	16.8	84.0	20	3 US-10-764-718-2	Sequence 2, Appl
78	16.8	84.0	20	3 US-09-954-987B-84	Sequence 84, Appl
79	16.8	84.0	20	3 US-09-954-987B-97	Sequence 97, Appl
80	16.8	84.0	20	3 US-09-954-987B-130	Sequence 130, App
81	16.8	84.0	20	3 US-09-954-987B-132	Sequence 132, App
82	16.8	84.0	20	3 US-09-954-987B-207	Sequence 207, App
83	16.8	84.0	20	3 US-09-672-126B-8	Sequence 8, Appl
84	16.8	84.0	20	3 US-09-672-126B-95	Sequence 95, Appl
85	16.8	84.0	29	3 US-08-846-229-2	Sequence 2, Appl
86	16.8	84.0	29	3 US-09-022-965-2	Sequence 2, Appl
87	16.8	84.0	2470	2 US-07-745-206A-14	Sequence 14, Appl
88	16.8	84.0	2470	2 US-08-311-363-14	Sequence 14, Appl
89	16.8	84.0	5467	2 US-07-745-206A-12	Sequence 12, Appl
90	16.8	84.0	5467	2 US-08-311-363-12	Sequence 12, Appl
91	16.8	84.0	7175	2 US-08-455-533A-8	Sequence 8, Appl
92	16.8	84.0	7175	2 US-08-193-078B-8	Sequence 8, Appl
93	16.8	84.0	7175	2 US-08-223-305C-8	Sequence 8, Appl
94	16.8	84.0	7175	2 US-08-149-097D-8	Sequence 8, Appl
95	16.8	84.0	7175	3 US-08-949-386-8	Sequence 8, Appl
96	16.8	84.0	7175	3 US-08-450-562-8	Sequence 8, Appl
97	16.8	84.0	7175	3 US-08-984-709A-8	Sequence 8, Appl

c 98 16.8 84.0 7175 3 US-08-450-272-8 Sequence 8, Appli
c 99 16.8 84.0 7175 3 US-08-450-273-8 Sequence 8, Appli
c 100 16.8 84.0 7177 3 US-09-268-163-7 Sequence 7, Appli

ALIGNMENTS

RESULT 1
US-09-133-774-12

; Sequence 12, Application US/09133774B
; Patent No. 5962636
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/133,774B
; CURRENT FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
US-09-133-774-12

Query Match 100.0%; Score 20; DB 2; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 2

US-09-303-862-12
; Sequence 12, Application US/09303862
; Patent No. 6034230
; GENERAL INFORMATION:
; APPLICANT: Bachmaier, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/303,862
; CURRENT FILING DATE: 1999-05-03
; EARLIER APPLICATION NUMBER: 09/133,774
; EARLIER FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-303-862-12

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 3
US-08-738-652-10

; Sequence 10, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-10

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 4

US-09-030-701-62
; Sequence 62, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CpG DINUCLEOTIDE IN THE TREATMENT OF
; TITLE OF INVENTION: LPS-ASSOCIATED DISORDERS
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 62
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-030-701-62

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 5
US-09-286-098-100
; Sequence 100, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; EARLIER FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 100
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-100

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGACGTTCTCGAGCTT 20
Db 1 TCCATGACGTTCTCGAGCTT 20

RESULT 6
US-09-286-098-105
; Sequence 105, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; EARLIER FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 105
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-105

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGACGTTCTCGAGCTT 20
Db 1 TCCATGACGTTCTCGAGCTT 20

RESULT 7
US-08-960-774-10
; Sequence 10, Application US/08960774
; Patent No. 6239116

GENERAL INFORMATION:
; APPLICANT: Krieger et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 10:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-10

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGACGTTCTCGAGCTT 20
Db 1 TCCATGACGTTCTCGAGCTT 20

RESULT 8
US-09-082-649B-51
; Sequence 51, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieger, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; EARLIER FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 51
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence

```
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: Has a phosphorothioate backbone.
US-09-082-649B-51
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTGTGACGTT 20
        |||
Db      1  TCCATGACGTTCTGTGACGTT 20
```

```
RESULT 9
US-09-082-649B-56
Sequence 56, Application US/09082649B
Patent No. 6339068
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Krieg, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
```

```
TITLE OF INVENTION: Vectors and Methods for Immunization or
FILE REFERENCE: C1039/7009
CURRENT APPLICATION NUMBER: US/09/082,649B
PRIOR FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR APPLICATION NUMBER: US 60/047,209
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 85
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 56
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: Has phosphodiester backbone.
US-09-082-649B-56
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTGTGACGTT 20
        |||
Db      1  TCCATGACGTTCTGTGACGTT 20
```

```
RESULT 10
US-09-082-649B-58
Sequence 58, Application US/09082649B
Patent No. 6339068
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Krieg, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
FILE REFERENCE: C1039/7009
CURRENT APPLICATION NUMBER: US/09/082,649B
PRIOR FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR APPLICATION NUMBER: US 60/047,209
```

```
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 85
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 58
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
```

```
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: Backbone is phosphorothioate--phosphodiester
OTHER INFORMATION: Chimera
US-09-082-649B-58
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTGTGACGTT 20
        |||
Db      1  TCCATGACGTTCTGTGACGTT 20
```

```
RESULT 11
US-09-325-193A-86
Sequence 86, Application US/09325193A
Patent No. 6406705
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Krieg, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Use of Nucleic Acids Containing
FILE REFERENCE: C1039/7025/HCL
CURRENT APPLICATION NUMBER: US/09/325,193A
PRIOR FILING DATE: 1999-06-03
PRIOR APPLICATION NUMBER: US 09/154,614
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/04703
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: US 60/040,376
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 98
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 86
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-86
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATGACGTTCTGTGACGTT 20
        |||
Db      1  TCCATGACGTTCTGTGACGTT 20
```

```
RESULT 12
US-09-325-193A-90
Sequence 90, Application US/09325193A
Patent No. 6406705
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Krieg, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Use of Nucleic Acids Containing
FILE REFERENCE: C1039/7025/HCL
```

```

; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 90
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-90

```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1  TCCATGACGTTCTCGACGTT 20
Db      1  TCCATGACGTTCTCGACGTT 20

```

```

RESULT 13
US-09-191-170-97
; Sequence 97, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 97
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-191-170-97

```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1  TCCATGACGTTCTCGACGTT 20
Db      1  TCCATGACGTTCTCGACGTT 20

```

```

RESULT 14
US-09-690-921-1
; Sequence 1, Application US/09690921
; Patent No. 6544518
; GENERAL INFORMATION:
; APPLICANT: Friede, Martin
; APPLICANT: Gerard, Catherine

```

```

; APPLICANT: Hermant, Philippe
; TITLE OF INVENTION: Vaccines
; FILE REFERENCE: B45181-1
; CURRENT APPLICATION NUMBER: US/09/690,921
; CURRENT FILING DATE: 2000-10-18
; PRIOR APPLICATION NUMBER: PCT/EP00/02920
; PRIOR FILING DATE: 2000-04-04
; PRIOR APPLICATION NUMBER: 09/301,829
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 9908885.8
; PRIOR FILING DATE: 1999-04-19
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Human
US-09-690-921-1

```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1  TCCATGACGTTCTCGACGTT 20
Db      1  TCCATGACGTTCTCGACGTT 20

```

```

RESULT 15
US-09-301-829A-1
; Sequence 1, Application US/09301829A
; Patent No. 6558670
; GENERAL INFORMATION:
; APPLICANT: Friede, Martin
; APPLICANT: Hermant, Philippe
; TITLE OF INVENTION: VACCINES
; FILE REFERENCE: B45181
; CURRENT APPLICATION NUMBER: US/09/301,829A
; CURRENT FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: GB9908885.8
; PRIOR FILING DATE: 1999-04-19
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Immunostimulatory oligonucleotide sequence comprising
; OTHER INFORMATION: one or more CpG motifs
US-09-301-829A-1

```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      1  TCCATGACGTTCTCGACGTT 20
Db      1  TCCATGACGTTCTCGACGTT 20

```

```

RESULT 16
US-09-692-170C-42
; Sequence 42, Application US/09692170C
; Patent No. 6562345
; GENERAL INFORMATION:
; APPLICANT: Diamond, Don J.
; TITLE OF INVENTION: IMMUNO-REACTIVE PEPTIDE CTL EPTOPES OF HUMAN CYTOMEGALOVIRUS
; FILE REFERENCE: 1954-346
; CURRENT APPLICATION NUMBER: US/09/692,170C
; CURRENT FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: US 09/534,639
; PRIOR FILING DATE: 2000-03-27

```

```
/ PRIOR APPLICATION NUMBER: US 09/075,257
/ PRIOR FILING DATE: 1998-05-11
/ PRIOR APPLICATION NUMBER: US 09/021,298
/ PRIOR FILING DATE: 1998-02-10
/ PRIOR APPLICATION NUMBER: US 08/950,064
/ PRIOR FILING DATE: 1997-10-14
/ PRIOR APPLICATION NUMBER: US 08/747,488
/ PRIOR FILING DATE: 1996-11-12
/ NUMBER OF SEQ ID NOS: 44
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 42
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic DNA adjuvant
US-09-692-170C-42
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 TCCATGACGTTCTCTGACGTT 20
        |||
        1 TCCATGACGTTCTCTGACGTT 20
```

```
RESULT 17
US-09-337-619-10
/ Sequence 10, Application US/09337619
/ Patent No. 6653292
```

```
/ GENERAL INFORMATION:
/ APPLICANT: Kiteg, Arthur M.
/ TITLE OF INVENTION: Methods of Treating Cancer Using
/ FILE REFERENCE: C1039/7021/HCL
/ CURRENT APPLICATION NUMBER: US/09/337,619
/ CURRENT FILING DATE: 1999-06-21
/ EARLIER APPLICATION NUMBER: US 08/960,774
/ EARLIER FILING DATE: 1997-10-30
/ EARLIER APPLICATION NUMBER: US 08/738,652
/ EARLIER FILING DATE: 1996-10-30
/ EARLIER APPLICATION NUMBER: US 08/386,063
/ EARLIER FILING DATE: 1995-02-07
/ EARLIER APPLICATION NUMBER: US 08/276,358
/ EARLIER FILING DATE: 1994-07-15
/ NUMBER OF SEQ ID NOS: 123
/ SOFTWARE: FaastSeq for Windows Version 3.0
/ SEQ ID NO 10
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-10
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 TCCATGACGTTCTCTGACGTT 20
        |||
        1 TCCATGACGTTCTCTGACGTT 20
```

```
RESULT 18
US-10-405-231A-42
/ Sequence 42, Application US/10405231A
/ Patent No. 6726910
/ GENERAL INFORMATION:
/ APPLICANT: Diamond, Don J.
/ TITLE OF INVENTION: IMMUNO-REACTIVE PEPTIDE CTL EPITOPES OF HUMAN CYTOMEGALOVIRUS
/ FILE REFERENCE: 1954-346
```

```
/ CURRENT APPLICATION NUMBER: US/10/405,231A
/ CURRENT FILING DATE: 2003-04-03
/ PRIOR APPLICATION NUMBER: US/09/692,170C
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: US 09/534,639
/ PRIOR FILING DATE: 2000-03-27
/ PRIOR APPLICATION NUMBER: US 09/075,257
/ PRIOR FILING DATE: 1998-05-11
/ PRIOR APPLICATION NUMBER: US 09/021,298
/ PRIOR FILING DATE: 1998-02-10
/ PRIOR APPLICATION NUMBER: US 08/950,064
/ PRIOR FILING DATE: 1997-10-14
/ PRIOR APPLICATION NUMBER: US 08/747,488
/ PRIOR FILING DATE: 1996-11-12
/ NUMBER OF SEQ ID NOS: 44
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 42
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic DNA adjuvant
US-10-405-231A-42
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 TCCATGACGTTCTCTGACGTT 20
        |||
        1 TCCATGACGTTCTCTGACGTT 20
```

```
RESULT 19
US-10-238-607-42
/ Sequence 42, Application US/10238607
/ Patent No. 6727093
/ GENERAL INFORMATION:
/ APPLICANT: Diamond, Don J.
/ TITLE OF INVENTION: HCMV- REACTIVE T CELLS AND USES THEREFOR
/ FILE REFERENCE: 1954-398
/ CURRENT APPLICATION NUMBER: US/10/238,607
/ CURRENT FILING DATE: 2002-12-09
/ PRIOR APPLICATION NUMBER: US 09/692,170
/ PRIOR FILING DATE: 2000-10-20
/ PRIOR APPLICATION NUMBER: US 09/534,639
/ PRIOR FILING DATE: 2000-03-27
/ PRIOR APPLICATION NUMBER: US 09/075,257
/ PRIOR FILING DATE: 1998-05-11
/ PRIOR APPLICATION NUMBER: US 09/021,298
/ PRIOR FILING DATE: 1998-02-10
/ PRIOR APPLICATION NUMBER: US 08/950,064
/ PRIOR FILING DATE: 1997-10-14
/ PRIOR APPLICATION NUMBER: US 08/747,488
/ PRIOR FILING DATE: 1996-11-12
/ NUMBER OF SEQ ID NOS: 43
/ SOFTWARE: PatentIn version 3.1
/ SEQ ID NO 42
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic DNA adjuvant
US-10-238-607-42
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1 TCCATGACGTTCTCTGACGTT 20
        |||
        1 TCCATGACGTTCTCTGACGTT 20
```

RESULT 20
US-09-984-365-42
Sequence 42, Application US/09984365
Patent No. 6733973
GENERAL INFORMATION:
APPLICANT: Diamond, Don J
TITLE OF INVENTION: IMMUNO-REACTIVE PEPTIDE CTL EPTIOPES OF HUMAN CYTOMEGALOVIRUS
FILE REFERENCE: 1954-384
CURRENT APPLICATION NUMBER: US/09/984,365
PRIOR FILING DATE: 2002-03-13
PRIOR APPLICATION NUMBER: US 09/692170
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: US 09/534639
PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 09/075257
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: US 09/021298
PRIOR FILING DATE: 1998-02-10
PRIOR APPLICATION NUMBER: US 08/950064
PRIOR FILING DATE: 1997-10-14
PRIOR APPLICATION NUMBER: US 08/747488
PRIOR FILING DATE: 1996-11-12
NUMBER OF SEQ ID NOS: 44
SOFTWARE: PatentIn version 3.1
SEQ ID NO 42
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: DNA adjuvant containing CpG sequences
US-09-984-365-42

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 21
US-09-565-906-1
Sequence 1, Application US/09565906
Patent No. 6737066
GENERAL INFORMATION:
APPLICANT: Moss, Ronald B.
TITLE OF INVENTION: HIV Immunogenic Compositions and Methods
FILE REFERENCE: P-1M 4023
CURRENT APPLICATION NUMBER: US/09/565,906
PRIOR FILING DATE: 2000-05-05
PRIOR APPLICATION NUMBER: US 60/132,762
PRIOR FILING DATE: 1999-05-06
PRIOR APPLICATION NUMBER: US 60/150,667
PRIOR FILING DATE: 1999-08-25
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: phosphorothioate-modified synthetic
US-09-565-906-1

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

Db 1 TCCATGACGTTCTGACGTT 20
RESULT 22
US-09-257-188A-2
Sequence 2, Application US/09257188A
Patent No. 6797276
GENERAL INFORMATION:
APPLICANT: Glenn, Gregory M.
TITLE OF INVENTION: Use of Penetration Enhancers and Barrier Disruption Agents to Enhance the Transcutaneous Immune Response
FILE REFERENCE: 4057-32
CURRENT APPLICATION NUMBER: US/09/257,188A
PRIOR FILING DATE: 1999-02-25
PRIOR APPLICATION NUMBER: US 08/749,164
PRIOR FILING DATE: 1996-11-14
PRIOR APPLICATION NUMBER: US 08/896,085
PRIOR FILING DATE: 1997-07-17
PRIOR APPLICATION NUMBER: PCT/US97/21324
PRIOR FILING DATE: 1997-11-14
PRIOR APPLICATION NUMBER: US 60/075,850
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: US 60/075,856
PRIOR FILING DATE: 1998-02-25
PRIOR APPLICATION NUMBER: US 60/086,251
PRIOR FILING DATE: 1998-05-21
NUMBER OF SEQ ID NOS: 2
SOFTWARE: PatentIn version 3.1
SEQ ID NO 2
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-257-188A-2

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
Db 1 TCCATGACGTTCTGACGTT 20

RESULT 23
US-09-965-101-51
Sequence 51, Application US/09965101
Patent No. 6821957
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
TITLE OF INVENTION: Vectors and Methods for Immunization or Therapeutic Protocols
FILE REFERENCE: C1039/7057 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/965,101
PRIOR FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: US 09/082,649
PRIOR FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR APPLICATION NUMBER: US 60/047,209
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 51
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: Has a phosphorothioate backbone.
US-09-965-101-51

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTATGACGTTCTCTGACGTT 20
Db 1 TCCTATGACGTTCTCTGACGTT 20

RESULT 24
US-09-965-101-56

Sequence 56, Application US/09965101
Patent No. 6821957
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Kriegl, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1039/7057 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/965,101
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: US 09/082,649
PRIOR FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR APPLICATION NUMBER: US 60/047,209
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 56
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: Has phosphodiester backbone.
US-09-965-101-56

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTATGACGTTCTCTGACGTT 20
Db 1 TCCTATGACGTTCTCTGACGTT 20

RESULT 25

US-09-965-101-58
Sequence 58, Application US/09965101
Patent No. 6821957
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Kriegl, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1039/7057 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/965,101
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: US 09/082,649
PRIOR FILING DATE: 1998-05-20

PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR APPLICATION NUMBER: US 60/047,209
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 58
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
NAME/KEY: misc_feature
LOCATION: (0)...(0)
OTHER INFORMATION: Backbone is phosphorothioate--phosphodiester
OTHER INFORMATION: chimera
US-09-965-101-58

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTATGACGTTCTCTGACGTT 20
Db 1 TCCTATGACGTTCTCTGACGTT 20

RESULT 26

US-10-697-055-42
Sequence 42, Application US/10697055
Patent No. 6843992
GENERAL INFORMATION:
APPLICANT: Diamond, Don J.
TITLE OF INVENTION: HCMV- REACTIVE T CELLS AND USES THEREFOR
FILE REFERENCE: 1954-398
CURRENT APPLICATION NUMBER: US/10/697,055
CURRENT FILING DATE: 2003-10-31
PRIOR APPLICATION NUMBER: US/10/238,607
PRIOR FILING DATE: 2002-12-09
PRIOR APPLICATION NUMBER: US 09/692,170
PRIOR FILING DATE: 2000-10-20
PRIOR APPLICATION NUMBER: US 09/534,639
PRIOR FILING DATE: 2000-03-27
PRIOR APPLICATION NUMBER: US 09/075,257
PRIOR FILING DATE: 1998-05-11
PRIOR APPLICATION NUMBER: US 09/021,298
PRIOR FILING DATE: 1998-02-10
PRIOR APPLICATION NUMBER: US 08/950,064
PRIOR FILING DATE: 1997-10-14
PRIOR APPLICATION NUMBER: US 08/747,488
PRIOR FILING DATE: 1996-11-12
NUMBER OF SEQ ID NOS: 43
SOFTWARE: PatentIn version 3.1
SEQ ID NO 42
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic DNA adjuvant
US-10-697-055-42

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTATGACGTTCTCTGACGTT 20
Db 1 TCCTATGACGTTCTCTGACGTT 20

RESULT 27

US-10-651-013-14
Sequence 14, Application US/10651013


```
Patent No. 6924135
; GENERAL INFORMATION:
; APPLICANT: ZION CORPORATION
; TITLE OF INVENTION: No. 6924135el DNA encoding Eimeria glycerolaldehyde-3-phosphate
; FILE OF INVENTION: dehydrogenase and uses thereof
; FILE REFERENCE: GAPDH gene of Eimeria
; CURRENT APPLICATION NUMBER: US/10/651,013
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence:
US-10-651-013-14
```

```
Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGACGTTCTGACGTT 20
Db      1  TCCATGACGTTCTGACGTT 20
```

```
RESULT 28
US-09-917-222B-1
; Sequence 1, Application US/09917222B
; Patent No. 6936261
; GENERAL INFORMATION:
; APPLICANT: Granoff, Dan
; APPLICANT: Moe, Gregory R.
; TITLE OF INVENTION: VACCINES FOR BROAD SPECTRUM PROTECTION
; TITLE OF INVENTION: AGAINST DISEASES CAUSED BY NEISSERIA MENINGITIDIS
; FILE REFERENCE: CHOR001
; CURRENT APPLICATION NUMBER: US/09/917,222B
; CURRENT FILING DATE: 2001-06-27
; PRIOR APPLICATION NUMBER: US 60/221,495
; PRIOR FILING DATE: 2000-07-27
; NUMBER OF SEQ ID NOS: 1
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Cpg nucleotides
US-09-917-222B-1
```

```
Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGACGTTCTGACGTT 20
Db      1  TCCATGACGTTCTGACGTT 20
```

```
RESULT 29
US-09-954-987B-83
; Sequence 83, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AMS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
```

```
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 83
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-83
```

```
Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGACGTTCTGACGTT 20
Db      1  TCCATGACGTTCTGACGTT 20
```

```
RESULT 30
US-09-672-126B-83
; Sequence 83, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Krieg, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; TITLE OF INVENTION: Nucleic Acid-Induced Interferon
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 83
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-672-126B-83
```

```
Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGACGTTCTGACGTT 20
Db      1  TCCATGACGTTCTGACGTT 20
```

```
RESULT 31
US-09-082-649B-12
; Sequence 12, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Mu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
```

```
FILE REFERENCE: C1039/7009
CURRENT APPLICATION NUMBER: US/09/082,649B
CURRENT FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR APPLICATION NUMBER: US 60/047,209
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 85
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 12
LENGTH: 44
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-12

Query Match          100.0%; Score 20; DB 3; Length 44;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
    |||||
Db 4 TCCATGACGTTCTGACGTT 23

RESULT 32
US-09-082-649B-13/C
Sequence 13, Application US/09082649B
Patent No. 6339068
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Kriegl, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1039/7009
CURRENT APPLICATION NUMBER: US/09/082,649B
CURRENT FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR APPLICATION NUMBER: US 60/047,209
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 85
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 13
LENGTH: 44
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-13

Query Match          100.0%; Score 20; DB 3; Length 44;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
    |||||
Db 4 TCCATGACGTTCTGACGTT 25

RESULT 33
US-09-965-101-12
Sequence 12, Application US/09965101
Patent No. 6821957
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Kriegl, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
```

```
TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1039/7057 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/965,101
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: US 09/082,649
PRIOR FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR APPLICATION NUMBER: US 60/047,209
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 12
LENGTH: 44
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-12

Query Match          100.0%; Score 20; DB 3; Length 44;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
    |||||
Db 4 TCCATGACGTTCTGACGTT 23

RESULT 34
US-09-965-101-13/C
Sequence 13, Application US/09965101
Patent No. 6821957
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Kriegl, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
TITLE OF INVENTION: Therapeutic Protocols
FILE REFERENCE: C1039/7057 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/965,101
CURRENT FILING DATE: 2001-09-26
PRIOR APPLICATION NUMBER: US 09/082,649
PRIOR FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR APPLICATION NUMBER: US 60/047,209
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 84
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 13
LENGTH: 44
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-13

Query Match          100.0%; Score 20; DB 3; Length 44;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGACGTT 20
    |||||
Db 4 TCCATGACGTTCTGACGTT 25

RESULT 35
US-09-954-987B-131
Sequence 131, Application US/09954987B
Patent No. 6943240
GENERAL INFORMATION:
```

```

; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 131
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; US-09-954-987B-131

```

```

Query Match      92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 6.5;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      1  |TCATGACGTTCTTGACGTT| 20
Db      1  |TCATGACGTTCTTGACGTT| 20

```

```

RESULT 36
; US-09-030-701-39
; Sequence 39, Application US/09030701B
; Patent No. 6214806
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Schwartz, David A.
; TITLE OF INVENTION: USE OF NUCLEIC ACIDS CONTAINING
; TITLE OF INVENTION: UNMETHYLATED CPG DINUCLEOTIDE IN THE TREATMENT OF
; FILE REFERENCE: C1039/7011
; CURRENT APPLICATION NUMBER: US/09/030,701B
; CURRENT FILING DATE: 1998-02-25
; PRIOR APPLICATION NUMBER: 60/039,405
; PRIOR FILING DATE: 1997-02-28
; NUMBER OF SEQ ID NOS: 65
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 39
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; US-09-030-701-39

```

```

Query Match      85.0%; Score 17; DB 3; Length 17;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      4  |ATGACGTTCTTGACGTT| 20
Db      1  |ATGACGTTCTTGACGTT| 17

```

```

RESULT 37
; US-09-286-098-70
; Sequence 70, Application US/09286098
; Patent No. 6218371

```

```

; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 70
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
; US-09-286-098-70

```

```

Query Match      85.0%; Score 17; DB 3; Length 17;
Best Local Similarity 100.0%; Pred. No. 32;
Matches 17; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

Qy      4  |ATGACGTTCTTGACGTT| 20
Db      1  |ATGACGTTCTTGACGTT| 17

```

```

RESULT 38
; US-08-960-774-70
; Sequence 70, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Kriegl et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Hallie, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5099
; TELEFAX: 619/678-5070
; INFORMATION FOR SEQ ID NO: 70:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
; US-08-960-774-70

```


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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 20:06:26 ; Search time 308.113 Seconds
(without alignments)
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Title: US-09-337-584-7

Perfect score: 20

Sequence: 1 tccatgacgtccctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7673375 seqs, 1153648444 residues

Total number of hits satisfying chosen parameters: 15346750

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

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Published Applications NA.New:*
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3: /cgn2_6/ptodata/2/pubphn/US07_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubphn/PCT_NEW_PUB.seq:*
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7: /cgn2_6/ptodata/2/pubphn/US10_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubphn/US10_NEW_PUB.seq:*
9: /cgn2_6/ptodata/2/pubphn/US11_NEW_PUB.seq:*
10: /cgn2_6/ptodata/2/pubphn/US11_NEW_PUB.seq:*
11: /cgn2_6/ptodata/2/pubphn/US11_NEW_PUB.seq:*
12: /cgn2_6/ptodata/2/pubphn/US11_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubphn/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	US-10-497-591A-12	Sequence 12, Appl
2	20	100.0	20	US-10-469-561-9	Sequence 9, Appl
3	20	100.0	20	US-10-619-279-7	Sequence 7, Appl
4	20	100.0	20	US-10-435-656-7	Sequence 7, Appl
5	20	100.0	20	US-10-435-656-35	Sequence 35, Appl
6	20	100.0	20	US-10-435-656-44	Sequence 35, Appl
7	20	100.0	20	US-10-435-656-54	Sequence 54, Appl
8	20	100.0	20	US-11-127-787-25	Sequence 25, Appl
9	20	100.0	20	US-11-127-803-25	Sequence 25, Appl
10	20	100.0	20	US-11-128-127-35	Sequence 25, Appl
11	20	100.0	20	US-11-025-658-2	Sequence 2, Appl
12	20	100.0	20	US-11-025-658-6	Sequence 6, Appl
13	20	100.0	20	US-11-137-654-10	Sequence 10, Appl
14	20	100.0	20	US-11-127-654-11	Sequence 11, Appl
15	20	100.0	20	US-11-127-654-731	Sequence 731, App
16	20	100.0	20	US-11-127-654-779	Sequence 779, App
17	20	100.0	20	US-11-127-654-836	Sequence 836, App
18	20	100.0	20	US-11-134-918-7	Sequence 7, Appl
19	20	100.0	20	US-11-134-918-35	Sequence 35, Appl
20	20	100.0	20	US-11-134-918-44	Sequence 44, Appl

21	20	100.0	20	US-11-134-918-54	Sequence 54, Appl
22	20	100.0	20	US-11-031-460-7	Sequence 7, Appl
23	20	100.0	20	US-11-031-460-35	Sequence 35, Appl
24	20	100.0	20	US-11-031-460-44	Sequence 44, Appl
25	20	100.0	20	US-11-031-460-54	Sequence 54, Appl
26	20	100.0	20	US-11-067-587-7	Sequence 7, Appl
27	20	100.0	20	US-11-067-587-35	Sequence 35, Appl
28	20	100.0	20	US-11-067-587-44	Sequence 44, Appl
29	20	100.0	20	US-11-067-587-54	Sequence 54, Appl
30	20	100.0	20	US-11-099-683-75	Sequence 75, Appl
31	20	100.0	20	US-11-099-683-76	Sequence 76, Appl
32	20	100.0	20	US-11-099-683-77	Sequence 77, Appl
33	20	100.0	20	US-11-099-683-78	Sequence 78, Appl
34	20	100.0	20	US-11-099-683-79	Sequence 79, Appl
35	20	100.0	20	US-11-099-683-80	Sequence 80, Appl
36	20	100.0	20	US-11-099-683-81	Sequence 81, Appl
37	20	100.0	20	US-11-127-654-200	Sequence 200, App
38	19	95.0	19	US-10-925-872-45	Sequence 45, Appl
39	19	95.0	19	US-11-173-938-89	Sequence 89, Appl
40	19	95.0	19	US-11-173-938-90	Sequence 90, Appl
41	19	95.0	19	US-11-173-938-91	Sequence 91, Appl
42	19	95.0	19	US-11-173-938-92	Sequence 92, Appl
43	19	95.0	19	US-11-173-938-93	Sequence 93, Appl
44	19	95.0	19	US-11-173-938-94	Sequence 94, Appl
45	19	95.0	19	US-11-173-938-95	Sequence 95, Appl
46	19	95.0	19	US-11-173-938-96	Sequence 96, Appl
47	19	95.0	19	US-11-173-938-97	Sequence 97, Appl
48	19	95.0	19	US-11-173-938-98	Sequence 98, Appl
49	19	95.0	19	US-11-173-938-99	Sequence 99, Appl
50	19	95.0	19	US-11-173-938-100	Sequence 100, App
51	19	95.0	19	US-11-173-938-101	Sequence 101, App
52	19	95.0	20	US-10-497-591A-14	Sequence 14, Appl
53	19	95.0	20	US-10-497-591A-71	Sequence 71, Appl
54	18.4	92.0	20	US-10-533-634-30	Sequence 30, Appl
55	18.4	92.0	20	US-10-619-279-3	Sequence 3, Appl
56	18.4	92.0	20	US-10-619-279-35	Sequence 9, Appl
57	18.4	92.0	20	US-10-619-279-38	Sequence 38, Appl
58	18.4	92.0	20	US-10-619-279-39	Sequence 39, Appl
59	18.4	92.0	20	US-10-619-279-87	Sequence 87, Appl
60	18.4	92.0	20	US-10-619-279-88	Sequence 88, Appl
61	18.4	92.0	20	US-10-435-656-3	Sequence 3, Appl
62	18.4	92.0	20	US-10-435-656-9	Sequence 9, Appl
63	18.4	92.0	20	US-10-435-656-40	Sequence 40, Appl
64	18.4	92.0	20	US-10-435-656-43	Sequence 43, Appl
65	18.4	92.0	20	US-10-435-656-45	Sequence 45, Appl
66	18.4	92.0	20	US-10-435-656-46	Sequence 46, Appl
67	18.4	92.0	20	US-10-435-656-53	Sequence 53, Appl
68	18.4	92.0	20	US-11-127-654-8	Sequence 8, Appl
69	18.4	92.0	20	US-11-127-654-118	Sequence 118, App
70	18.4	92.0	20	US-11-127-654-129	Sequence 129, App
71	18.4	92.0	20	US-11-127-654-727	Sequence 727, App
72	18.4	92.0	20	US-11-127-654-732	Sequence 732, App
73	18.4	92.0	20	US-11-127-654-750	Sequence 750, App
74	18.4	92.0	20	US-11-127-654-811	Sequence 811, App
75	18.4	92.0	20	US-11-127-654-812	Sequence 812, App
76	18.4	92.0	20	US-11-134-918-3	Sequence 3, Appl
77	18.4	92.0	20	US-11-134-918-9	Sequence 9, Appl
78	18.4	92.0	20	US-11-134-918-40	Sequence 40, Appl
79	18.4	92.0	20	US-11-134-918-43	Sequence 43, Appl
80	18.4	92.0	20	US-11-134-918-45	Sequence 45, Appl
81	18.4	92.0	20	US-11-134-918-46	Sequence 46, Appl
82	18.4	92.0	20	US-11-134-918-53	Sequence 53, Appl
83	18.4	92.0	20	US-11-031-460-3	Sequence 3, Appl
84	18.4	92.0	20	US-11-031-460-9	Sequence 9, Appl
85	18.4	92.0	20	US-11-031-460-40	Sequence 40, Appl
86	18.4	92.0	20	US-11-031-460-43	Sequence 43, Appl
87	18.4	92.0	20	US-11-031-460-45	Sequence 45, Appl
88	18.4	92.0	20	US-11-031-460-46	Sequence 46, Appl
89	18.4	92.0	20	US-11-031-460-53	Sequence 53, Appl
90	18.4	92.0	20	US-11-031-460-52	Sequence 52, Appl
91	18.4	92.0	20	US-11-067-587-3	Sequence 3, Appl
92	18.4	92.0	20	US-11-067-587-7	Sequence 7, Appl
93	18.4	92.0	20	US-11-067-587-9	Sequence 9, Appl

94	18.4	92.0	20	12	US-11-067-587-43	Sequence 40, Appl
95	18.4	92.0	20	12	US-11-067-587-43	Sequence 43, Appl
96	18.4	92.0	20	12	US-11-067-587-45	Sequence 45, Appl
97	18.4	92.0	20	12	US-11-067-587-46	Sequence 46, Appl
98	18.4	92.0	20	12	US-11-067-587-53	Sequence 53, Appl
99	18.4	92.0	20	12	US-11-099-663-44	Sequence 64, Appl
100	18.4	92.0	20	12	US-11-099-663-55	Sequence 65, Appl

ALIGNMENTS

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RESULT 1
US-10-497-591A-12
Sequence 12, Application US/10497591A
Publication No. US20050250716A1
GENERAL INFORMATION:
APPLICANT: SCHMIDT, WALTER
APPLICANT: SCHELLACK, CAROLA
APPLICANT: EGYED, ALENA
APPLICANT: LINGNAU, KAREN
TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
FILE REFERENCE: SONN:04RUS
CURRENT APPLICATION NUMBER: US/10/497,591A
CURRENT FILING DATE: 2004-06-03
PRIOR APPLICATION NUMBER: PCT/EP02/13791
PRIOR FILING DATE: 2002-12-05
PRIOR APPLICATION NUMBER: A 1924/2001
PRIOR FILING DATE: 2001-12-07
NUMBER OF SEQ ID NOS: 113
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 12
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-497-591A-12

```

Query Match	100.0%	Score 20	DB 8	Length 20
Best Local Similarity	100.0%	Pred. No. 0.3		
Matches	20	Conservative 0	Mismatches 0	Indels 0
Qy	1	TCATGACGTTCTGATGCT	20	
db	1	TCATGACGTTCTGATGCT	20	

```

RESULT 2
US-10-469-561-9
; Sequence 9, Application US/10469561
; Publication No. US20050260216A1
; GENERAL INFORMATION:
; APPLICANT: Claire Ashman
; APPLICANT: James Scott Crowe
; APPLICANT: Jonathan Henry Ellis
; APPLICANT: Alan Peter Lewis
; TITLE OF INVENTION: VACCINE
; FILE REFERENCE: PG435505W
; CURRENT APPLICATION NUMBER: US/10/469,561
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 9
; LENGTH: 20
; TYPE: DNA
; ORGANISM: unknown
; FEATURE:
; OTHER INFORMATION: synthetic immunostimulatory oligonucleotide
US-10-469-561-9

```

Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0.

QY 1 TCCATGACGTTCCCTGATGCT 20
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Db 1 TCCATGACGTTCCCTGATGCT 20

```

RESULT 3
US-10-619-279-7
, Sequence 7, Application US/10619279
, Publication No. US20050267057A1
, GENERAL INFORMATION:
, APPLICANT: Kriegl, Arthur M.
, TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
, FILE REFERENCE: C1039/7023/HCL
, CURRENT APPLICATION NUMBER: US/10/619,279
, CURRENT FILING DATE: 2003-07-14
, PRIOR APPLICATION NUMBER: US 08/960,774
, PRIOR FILING DATE: 1997-10-30
, PRIOR APPLICATION NUMBER: US 08/738,652
, PRIOR FILING DATE: 1996-10-30
, PRIOR APPLICATION NUMBER: US 08/386,063
, PRIOR FILING DATE: 1995-02-07
, PRIOR APPLICATION NUMBER: US 08/276,358
, PRIOR FILING DATE: 1994-07-15
, NUMBER OF SEQ. ID NOS: 123
, SOFTWARE: FastSeq for Windows Version 3.0
, SEQ ID NO 7
, LENGTH: 20
, TYPE: DNA
, ORGANISM: Artificial Sequence
, FEATURE:
, OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-7

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Query Match	100.0%;	Score 20;	DB 8;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 0.3;		
Matches 20;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

OY		1	TCCATGACGTTCCTGATGCT	20
D6		1	TCCATGACGTTTCTGATGCT	20

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RESULT 4
US-10-435-656-7
; Sequence 7, Application US/10435656
; Publication No. US20050277604A1
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kline, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (ANS)
CURRENT APPLICATION NUMBER: US/10/435,656
CURRENT FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 7
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-7

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Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
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Db 1 TCCATGACGTTCTGATGCT 20

RESULT 5
US-10-435-656-35
; Sequence 35, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/10/435,656
PRIOR FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 35
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-35

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
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Db 1 TCCATGACGTTCTGATGCT 20

RESULT 6
US-10-435-656-44
; Sequence 44, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/10/435,656
PRIOR FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 44
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-44

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
|||
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 7
US-10-435-656-54
; Sequence 54, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/10/435,656
PRIOR FILING DATE: 2003-05-09
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 54
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-54

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
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Db 1 TCCATGACGTTCTGATGCT 20

RESULT 8
US-11-127-797-25
; Sequence 25, Application US/11127797
; Publication No. US20050245477A1
; GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
FILE REFERENCE: C1039/7029
CURRENT APPLICATION NUMBER: US/11/127,797
PRIOR FILING DATE: 2005-05-11
PRIOR APPLICATION NUMBER: US/10/690,495
PRIOR FILING DATE: 2003-10-21
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
NUMBER OF SEQ ID NOS: 27
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 25
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence

FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-797-25

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTATGCT 20
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DB 1 TCCATGACGTTCTGTATGCT 20

RESULT 9
US-11-127-803-25
; Sequence 25, Application US/11127803
; Publication No. US20050244379A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/127,803
; PRIOR FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-803-25

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTATGCT 20
 |||||
DB 1 TCCATGACGTTCTGTATGCT 20

RESULT 10
US-11-128-127-25
; Sequence 25, Application US/11128127
; Publication No. US20050244380A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/128,127
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-128-127-25

Query Match 100.0%; Score 20; DB 10; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTATGCT 20
 |||||
DB 1 TCCATGACGTTCTGTATGCT 20

RESULT 11
US-11-025-858-2
; Sequence 2, Application US/11025858
; Publication No. US20050250723A1
; GENERAL INFORMATION:
; APPLICANT: Hoerr, Ingmar
; APPLICANT: Von Der Mulbe, Florian
; APPLICANT: Pascolo, Steve
; TITLE OF INVENTION: Immunstimulation by chemically modified RNA
; FILE REFERENCE: Curevac GmbH (2793-1-002)
; CURRENT APPLICATION NUMBER: US/11/025,858
; PRIOR FILING DATE: 2004-12-28
; PRIOR APPLICATION NUMBER: PCT/EP2003/007175
; PRIOR FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: DE 10229872.6
; PRIOR FILING DATE: 2002-07-03
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 2
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide, CpG RNA 1668
US-11-025-858-2

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 65.0%; Pred. No. 0.3;
Matches 13; Conservative 7; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTATGCT 20
 :|||:||||:|:|:|:|:
DB 1 UCCAGACGCUUCUGAUGCU 20

RESULT 12
US-11-025-858-6
; Sequence 6, Application US/11025858
; Publication No. US20050250723A1
; GENERAL INFORMATION:
; APPLICANT: Hoerr, Ingmar
; APPLICANT: Von Der Mulbe, Florian
; APPLICANT: Pascolo, Steve
; TITLE OF INVENTION: Immunstimulation by chemically modified RNA
; FILE REFERENCE: Curevac GmbH (2793-1-002)
; CURRENT APPLICATION NUMBER: US/11/025,858
; CURRENT FILING DATE: 2004-12-28
; PRIOR APPLICATION NUMBER: PCT/EP2003/007175
; PRIOR FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: DE 10229872.6
; PRIOR FILING DATE: 2002-07-03
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 6
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide, CpG DNA 1668
US-11-025-858-6

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20

Db 1 TCCATGACGTTCTGATGCT 20

RESULT 13

US-11-127-654-10

Sequence 10, Application US/11127654

Publication No. US20050250726A1

GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

APPLICANT: Berg, Daniel J.

TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

FILE REFERENCE: C1039.70060US01

CURRENT APPLICATION NUMBER: US/11/127,654

PRIOR FILING DATE: 2005-05-12

PRIOR FILING DATE: 2002-03-29

PRIOR APPLICATION NUMBER: US 60/279,642

PRIOR FILING DATE: 2001-03-29

NUMBER OF SEQ ID NOS: 1040

SOFTWARE: PatentIn version 3.2

SEQ ID NO 10

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

NAME/KEY: modified_base

LOCATION: (8)..(8)

OTHER INFORMATION: mSc

US-11-127-654-10

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20

Db 1 TCCATGACGTTCTGATGCT 20

RESULT 14

US-11-127-654-11

Sequence 11, Application US/11127654

Publication No. US20050250726A1

GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

APPLICANT: Berg, Daniel J.

TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

FILE REFERENCE: C1039.70060US01

CURRENT APPLICATION NUMBER: US/11/127,654

PRIOR FILING DATE: 2005-05-12

PRIOR FILING DATE: 2002-03-29

PRIOR APPLICATION NUMBER: US 60/279,642

PRIOR FILING DATE: 2001-03-29

NUMBER OF SEQ ID NOS: 1040

SOFTWARE: PatentIn version 3.2

SEQ ID NO 11

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

NAME/KEY: modified_base

LOCATION: (13)..(13)

OTHER INFORMATION: mSc

US-11-127-654-11

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20

Db 1 TCCATGACGTTCTGATGCT 20

RESULT 15

US-11-127-654-731

Sequence 731, Application US/11127654

Publication No. US20050250726A1

GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

APPLICANT: Berg, Daniel J.

TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

FILE REFERENCE: C1039.70060US01

CURRENT APPLICATION NUMBER: US/11/127,654

PRIOR FILING DATE: 2005-05-12

PRIOR FILING DATE: 2002-03-29

PRIOR APPLICATION NUMBER: US 60/279,642

PRIOR FILING DATE: 2001-03-29

NUMBER OF SEQ ID NOS: 1040

SOFTWARE: PatentIn version 3.2

SEQ ID NO 731

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

US-11-127-654-731

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20

Db 1 TCCATGACGTTCTGATGCT 20

RESULT 16

US-11-127-654-779

Sequence 779, Application US/11127654

Publication No. US20050250726A1

GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

APPLICANT: Berg, Daniel J.

TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC

FILE REFERENCE: C1039.70060US01

CURRENT APPLICATION NUMBER: US/11/127,654

PRIOR FILING DATE: 2005-05-12

PRIOR FILING DATE: 2002-03-29

PRIOR APPLICATION NUMBER: US 60/279,642

PRIOR FILING DATE: 2001-03-29

NUMBER OF SEQ ID NOS: 1040

SOFTWARE: PatentIn version 3.2

SEQ ID NO 779

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

US-11-127-654-779

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
|||||
DB 1 TCCATGACGTTCTGATGCT 20

RESULT 17
US-11-127-654-836
; Sequence 836, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70660US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; PRIOR FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 836
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: misc.feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: biotinylated
US-11-127-654-836

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
|||||
DB 1 TCCATGACGTTCTGATGCT 20

RESULT 18
US-11-134-918-7
; Sequence 7, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20

; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-7

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
|||||
DB 1 TCCATGACGTTCTGATGCT 20

RESULT 19
US-11-134-918-35
; Sequence 35, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-35

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
|||||
DB 1 TCCATGACGTTCTGATGCT 20

RESULT 20
US-11-134-918-44
; Sequence 44, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063

;; PRIOR FILING DATE: 1995-02-07
;; PRIOR APPLICATION NUMBER: US 08/738,652
;; PRIOR FILING DATE: 1996-10-30
;; NUMBER OF SEQ ID NOS: 56
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 44
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-44

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGACGTTCTCGATGCT 20
Db 1 TCCATGACGTTCTCGATGCT 20

RESULT 21
US-11-134-918-54
; Sequence 54, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; PRIOR FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-54

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGACGTTCTCGATGCT 20
Db 1 TCCATGACGTTCTCGATGCT 20

RESULT 22
US-11-031-460-7
; Sequence 7, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)

;; CURRENT APPLICATION NUMBER: US/11/031,460
;; CURRENT FILING DATE: 2005-01-07
;; PRIOR APPLICATION NUMBER: US/09/818,918
;; PRIOR FILING DATE: 2001-03-27
;; PRIOR APPLICATION NUMBER: US 08/276,358
;; PRIOR FILING DATE: 1994-07-15
;; PRIOR APPLICATION NUMBER: US 08/386,063
;; PRIOR FILING DATE: 1995-02-07
;; PRIOR APPLICATION NUMBER: US 08/738,652
;; PRIOR FILING DATE: 1996-10-30
;; NUMBER OF SEQ ID NOS: 56
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 7
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-7

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGACGTTCTCGATGCT 20
Db 1 TCCATGACGTTCTCGATGCT 20

RESULT 23
US-11-031-460-35
; Sequence 35, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; PRIOR FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-35

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCATGACGTTCTCGATGCT 20
Db 1 TCCATGACGTTCTCGATGCT 20

RESULT 24
US-11-031-460-44
; Sequence 44, Application US/11031460
; Publication No. US20050277609A1

```

; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; CURRENT FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FaSTSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-44

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY 1 TCCATGACGTCCTGATGCT 20
    |||
Db 1 TCCATGACGTCCTGATGCT 20

RESULT 25
US-11-031-460-54
; Sequence 54, Application US/11031460
; Publication No. US20050277609A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/031,460
; CURRENT FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FaSTSeq for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-54
```

```

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

1 TCCATGACGTCCTGATGCT 20
|||||
```

```

Db 1 TCCATGACGTCCTGATGCT 20

RESULT 26
US-11-067-587-7
; Sequence 7, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FaSTSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-7

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY 1 TCCATGACGTCCTGATGCT 20
    |||
Db 1 TCCATGACGTCCTGATGCT 20

RESULT 27
US-11-067-587-35
; Sequence 35, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FaSTSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-35
```

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 28
US-11-067-587-44
; Sequence 44, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; PRIOR FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-44

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 29
US-11-067-587-54
; Sequence 54, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; PRIOR FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-54

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 30
US-11-099-683-75
; Sequence 75, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037,70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 75
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-75

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCTGATGCT 20
|||||
Db 1 TCCATGACGTTCTCTGATGCT 20

RESULT 31
US-11-099-683-76
; Sequence 76, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037,70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; PRIOR FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 76
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-76

Query Match 100.0%; Score 20; DB 12; Length 20;

Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTATGCT 20
|||||
Db 1 TCCATGACGTTCTGTATGCT 20

RESULT 32

US-11-099-683-77
; Sequence 77, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 77
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-77

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTATGCT 20
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Db 1 TCCATGACGTTCTGTATGCT 20

RESULT 33

US-11-099-683-78
; Sequence 78, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 78
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-78

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTATGCT 20
|||||
Db 1 TCCATGACGTTCTGTATGCT 20

RESULT 34

US-11-099-683-79
; Sequence 79, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-79

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTATGCT 20
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Db 1 TCCATGACGTTCTGTATGCT 20

RESULT 35

US-11-099-683-80
; Sequence 80, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 80
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-80

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGTATGCT 20
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Db 1 TCCATGACGTTCTGTATGCT 20

RESULT 36

US-11-099-683-81
; Sequence 81, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Krieger, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683

;; CURRENT FILING DATE: 2005-04-04
;; PRIOR APPLICATION NUMBER: US 60/558,951
;; PRIOR FILING DATE: 2004-04-02
;; NUMBER OF SEQ ID NOS: 143
;; SOFTWARE: PatentIn version 3.3
;; SEQ ID NO 81
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-81

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.3;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCGATGCT 20
Db 1 TCCATGACGTTCTCGATGCT 20

RESULT 37
US-11-127-654-200
;; Sequence 200, Application US/11127654
;; Publication No. US20050250726A1
;; GENERAL INFORMATION:
;; APPLICANT: Kries, Arthur M.
;; APPLICANT: Berg, Daniel J.
;; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
;; TITLE OF INVENTION: INFLAMMATORY DISEASES
;; FILE REFERENCE: C1039,70060US01
;; CURRENT APPLICATION NUMBER: US/11/127,654
;; CURRENT FILING DATE: 2005-05-12
;; PRIOR APPLICATION NUMBER: US 10/112,653
;; PRIOR FILING DATE: 2002-03-29
;; PRIOR APPLICATION NUMBER: US 60/279,642
;; PRIOR FILING DATE: 2001-03-29
;; NUMBER OF SEQ ID NOS: 1040
;; SOFTWARE: PatentIn version 3.2
;; SEQ ID NO 200
;; LENGTH: 29
;; TYPE: DNA
;; ORGANISM: Artificial sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic oligonucleotide
;; NAME/KEY: misc feature
;; LOCATION: (1)-(1)
;; OTHER INFORMATION: biotinylated
US-11-127-654-200

Query Match 100.0%; Score 20; DB 12; Length 29;
Best Local Similarity 100.0%; Pred. No. 0.32;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCGATGCT 20
Db 6 TCCATGACGTTCTCGATGCT 25

RESULT 38
US-10-925-872-45
;; Sequence 45, Application US/10925872
;; Publication No. US20060019909A1
;; GENERAL INFORMATION:
;; APPLICANT: AGRAMAL, SUDHIR
;; APPLICANT: KANDIMALLA, EKAMBAR
;; APPLICANT: YU, DONG
;; APPLICANT: BHAGAT, LAKSHMI
;; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
;; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY OPTIMAL PRESENTATION
;; TITLE OF INVENTION: OF 5' ENDS

;; FILE REFERENCE: HYB-007US2
;; CURRENT APPLICATION NUMBER: US/10/925,872
;; CURRENT FILING DATE: 2004-08-25
;; PRIOR APPLICATION NUMBER: US/10/279,684
;; PRIOR FILING DATE: 2002-10-24
;; NUMBER OF SEQ ID NOS: 65
;; SOFTWARE: PatentIn Ver. 2.1
;; SEQ ID NO 45
;; LENGTH: 19
;; TYPE: DNA
;; ORGANISM: Artificial sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-925-872-45

Query Match 95.0%; Score 19; DB 7; Length 19;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCGATGC 19
Db 1 TCCATGACGTTCTCGATGC 19

RESULT 39
US-11-173-938-89
;; Sequence 89, Application US/11173938
;; Publication No. US20060019918A1
;; GENERAL INFORMATION:
;; APPLICANT: AGRAMAL, SUDHIR
;; APPLICANT: BHAGAT, LAKSHMI
;; APPLICANT: WESTBORO, DONG YU
;; APPLICANT: KANDIMALLA, EKAMBAR R.
;; TITLE OF INVENTION: MODULATION OF IMMUNOSTIMULATORY PROPERTIES OF
;; TITLE OF INVENTION: OLIGONUCLEOTIDE-BASED COMPOUNDS BY UTILIZING MODIFIED
;; FILE REFERENCE: HYB-018US1
;; CURRENT APPLICATION NUMBER: US/11/173,938
;; CURRENT FILING DATE: 2005-07-01
;; PRIOR APPLICATION NUMBER: US/10/757,345
;; PRIOR FILING DATE: 2004-01-14
;; PRIOR APPLICATION NUMBER: 60/440,587
;; PRIOR FILING DATE: 2003-01-16
;; NUMBER OF SEQ ID NOS: 192
;; SOFTWARE: PatentIn Ver. 3.2
;; SEQ ID NO 89
;; LENGTH: 19
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-11-173-938-89

Query Match 95.0%; Score 19; DB 12; Length 19;
Best Local Similarity 100.0%; Pred. No. 1;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTCGATGC 19
Db 1 TCCATGACGTTCTCGATGC 19

RESULT 40
US-11-173-938-90
;; Sequence 90, Application US/11173938
;; Publication No. US20060019918A1
;; GENERAL INFORMATION:
;; APPLICANT: AGRAMAL, SUDHIR
;; APPLICANT: BHAGAT, LAKSHMI
;; APPLICANT: WESTBORO, DONG YU
;; APPLICANT: KANDIMALLA, EKAMBAR R.

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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 19:48:19 ; Search time 419.057 Seconds
(without alignments)
394.666 Million cell updates/sec

Title: US-09-337-584-7

Perfect score: 20

Sequence: 1 tccatgacgtccctcgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database: Published Applications NA Main:

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2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
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10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	3	US-09-791-500-7
2	20	100.0	20	3	US-09-824-468-24
3	20	100.0	20	3	US-09-800-266A-19
4	20	100.0	20	3	US-09-846-091-4
5	20	100.0	20	3	US-09-895-007A-19
6	20	100.0	20	3	US-09-920-313-19
7	20	100.0	20	3	US-09-415-142-25
8	20	100.0	20	3	US-09-888-326-127
9	20	100.0	20	3	US-09-888-326-566
10	20	100.0	20	3	US-09-888-326-567
11	20	100.0	20	3	US-09-818-918-7
12	20	100.0	20	3	US-09-818-918-35
13	20	100.0	20	3	US-09-818-918-44
14	20	100.0	20	3	US-09-818-918-54
15	20	100.0	20	3	US-09-931-583-25
16	20	100.0	20	3	US-09-931-583-48
17	20	100.0	20	3	US-09-776-479-758
18	20	100.0	20	3	US-09-776-479-806
19	20	100.0	20	3	US-09-776-479-865
20	20	100.0	20	3	US-09-954-987B-84
21	20	100.0	20	3	US-09-954-987B-207
22	20	100.0	20	3	US-09-967-464-7
23	20	100.0	20	3	US-09-874-991C-27

24	20	100.0	20	3	US-09-874-991C-93	Sequence 93, Appl
25	20	100.0	20	3	US-09-874-991C-114	Sequence 114, Appl
26	20	100.0	20	3	US-09-874-991C-138	Sequence 138, Appl
27	20	100.0	20	3	US-09-874-991C-165	Sequence 165, Appl
28	20	100.0	20	3	US-09-874-991C-186	Sequence 186, Appl
29	20	100.0	20	3	US-09-874-991C-406	Sequence 406, Appl
30	20	100.0	20	3	US-09-874-991C-425	Sequence 425, Appl
31	20	100.0	20	3	US-09-776-479-758	Sequence 758, Appl
32	20	100.0	20	3	US-09-776-479-806	Sequence 806, Appl
33	20	100.0	20	3	US-09-776-479-865	Sequence 865, Appl
34	20	100.0	20	3	US-09-965-101-68	Sequence 68, Appl
35	20	100.0	20	3	US-09-965-101-79	Sequence 79, Appl
36	20	100.0	20	5	US-10-022-909A-19	Sequence 19, Appl
37	20	100.0	20	5	US-10-205-150-7	Sequence 7, Appl
38	20	100.0	20	5	US-10-011-635A-10	Sequence 1, Appl
39	20	100.0	20	5	US-10-112-653-10	Sequence 10, Appl
40	20	100.0	20	5	US-10-112-653-11	Sequence 11, Appl
41	20	100.0	20	5	US-10-112-653-731	Sequence 731, Appl
42	20	100.0	20	5	US-10-112-653-779	Sequence 779, Appl
43	20	100.0	20	5	US-10-112-653-836	Sequence 836, Appl
44	20	100.0	20	5	US-10-017-995-758	Sequence 758, Appl
45	20	100.0	20	5	US-10-017-995-806	Sequence 806, Appl
46	20	100.0	20	5	US-10-017-995-865	Sequence 865, Appl
47	20	100.0	20	5	US-10-300-247-19	Sequence 19, Appl
48	20	100.0	20	5	US-10-161-229-24	Sequence 24, Appl
49	20	100.0	20	6	US-10-088-567-5	Sequence 5, Appl
50	20	100.0	20	6	US-10-219-143-7	Sequence 7, Appl
51	20	100.0	20	6	US-10-304-616-5	Sequence 5, Appl
52	20	100.0	20	6	US-10-272-502A-12	Sequence 12, Appl
53	20	100.0	20	6	US-10-210-141-5	Sequence 5, Appl
54	20	100.0	20	6	US-10-379-144-5	Sequence 5, Appl
55	20	100.0	20	6	US-10-187-264A-7	Sequence 7, Appl
56	20	100.0	20	6	US-10-265-072-18	Sequence 18, Appl
57	20	100.0	20	6	US-10-412-151-7	Sequence 7, Appl
58	20	100.0	20	6	US-10-306-552-7	Sequence 7, Appl
59	20	100.0	20	6	US-10-233-992-9	Sequence 9, Appl
60	20	100.0	20	6	US-10-314-578-758	Sequence 758, Appl
61	20	100.0	20	6	US-10-314-578-806	Sequence 806, Appl
62	20	100.0	20	6	US-10-314-578-865	Sequence 865, Appl
63	20	100.0	20	6	US-10-434-696-19	Sequence 19, Appl
64	20	100.0	20	6	US-10-407-952-7	Sequence 7, Appl
65	20	100.0	20	6	US-10-455-247-28	Sequence 28, Appl
66	20	100.0	20	6	US-10-455-247-30	Sequence 30, Appl
67	20	100.0	20	7	US-10-373-381-24	Sequence 24, Appl
68	20	100.0	20	7	US-10-399-356-5	Sequence 5, Appl
69	20	100.0	20	7	US-10-411-205A-1	Sequence 1, Appl
70	20	100.0	20	7	US-10-631-676-25	Sequence 25, Appl
71	20	100.0	20	7	US-10-719-493-7	Sequence 7, Appl
72	20	100.0	20	7	US-10-627-331-7	Sequence 7, Appl
73	20	100.0	20	7	US-10-666-733-19	Sequence 19, Appl
74	20	100.0	20	7	US-10-743-625-7	Sequence 7, Appl
75	20	100.0	20	7	US-10-743-625-35	Sequence 35, Appl
76	20	100.0	20	7	US-10-743-625-44	Sequence 44, Appl
77	20	100.0	20	7	US-10-743-625-54	Sequence 54, Appl
78	20	100.0	20	7	US-10-743-625-54	Sequence 54, Appl
79	20	100.0	20	7	US-10-789-051-25	Sequence 25, Appl
80	20	100.0	20	7	US-10-690-955-25	Sequence 25, Appl
81	20	100.0	20	7	US-10-679-110-7	Sequence 7, Appl
82	20	100.0	20	7	US-10-679-110-35	Sequence 35, Appl
83	20	100.0	20	7	US-10-679-110-45	Sequence 45, Appl
84	20	100.0	20	7	US-10-788-191-25	Sequence 25, Appl
85	20	100.0	20	7	US-10-789-336-25	Sequence 25, Appl
86	20	100.0	20	7	US-10-769-826-25	Sequence 25, Appl
87	20	100.0	20	7	US-10-789-353-25	Sequence 25, Appl
88	20	100.0	20	7	US-10-764-718-2	Sequence 2, Appl
89	20	100.0	20	7	US-10-769-882-7	Sequence 7, Appl
90	20	100.0	20	7	US-10-769-882-35	Sequence 35, Appl
91	20	100.0	20	7	US-10-769-882-44	Sequence 44, Appl
92	20	100.0	20	7	US-10-769-882-54	Sequence 54, Appl
93	20	100.0	20	7	US-10-787-737-25	Sequence 25, Appl
94	20	100.0	20	8	US-10-788-199-25	Sequence 25, Appl
95	20	100.0	20	8	US-10-817-165-7	Sequence 7, Appl
96	20	100.0	20	8	US-10-817-165-35	Sequence 35, Appl

97	20	100.0	20	8	US-10-817-165-44	Sequence 44, Appl
98	20	100.0	20	8	US-10-817-165-54	Sequence 54, Appl
99	20	100.0	20	8	US-10-877-407-38	Sequence 38, Appl
100	20	100.0	20	8	US-10-877-369-24	Sequence 24, Appl

ALIGNMENTS

RESULT 1
US-09-791-500-7

; Sequence 7, Application US/09791500
; Patent No. US20020042387A1
; GENERAL INFORMATION:
; APPLICANT: Raz, Eyal
; APPLICANT: Rachmilewitz, Daniel
; TITLE OF INVENTION: Method for Treating Inflammatory Bowel
; FILE REFERENCE: 6510-202U51
; CURRENT APPLICATION NUMBER: US/09/791,500
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic polynucleotide sequence
US-09-791-500-7

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGCTCTGATGCT 20
DB 1 TCATGACGCTCTGATGCT 20RESULT 2
US-09-824-468-24

; Sequence 24, Application US/09824468
; Patent No. US20020064515A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/824,468
; CURRENT FILING DATE: 2001-04-02
; PRIOR APPLICATION NUMBER: 09/286,098
; PRIOR FILING DATE: 1999-04-02
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-824-468-24

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGCTCTGATGCT 20
DB 1 TCATGACGCTCTGATGCT 20RESULT 3
US-09-800-266A-19
; Sequence 19, Application US/09800266A
; Patent No. US20020156033A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
; TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
; FILE REFERENCE: C1037/7017(HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/800,266A
; CURRENT FILING DATE: 2001-03-05
; PRIOR APPLICATION NUMBER: US 60/187,214
; PRIOR FILING DATE: 2000-03-03
; NUMBER OF SEQ ID NOS: 146
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-19

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGCTCTGATGCT 20
DB 1 TCATGACGCTCTGATGCT 20RESULT 4
US-09-846-091-4

; Sequence 4, Application US/09846091
; Patent No. US20020165176A1
; GENERAL INFORMATION:
; APPLICANT: HAYNES, Joel R.
; APPLICANT: MACKLIN, Michael D.
; APPLICANT: PAYNE, London G.
; TITLE OF INVENTION: NUCLEIC ACID IMMUNIZATION
; FILE REFERENCE: APF40
; CURRENT APPLICATION NUMBER: US/09/846,091
; CURRENT FILING DATE: 2001-04-30
; PRIOR APPLICATION NUMBER: US/09/561,951
; PRIOR FILING DATE: 2000-05-01
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 4
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-846-091-4

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGCTCTGATGCT 20
DB 1 TCATGACGCTCTGATGCT 20RESULT 5
US-09-895-007A-19
; Sequence 19, Application US/09895007A
; Patent No. US20020165178A1

Thu Mar 9 15:07:23 2006

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; GENERAL INFORMATION:
; APPLICANT: Schetter, Christian
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
; FILE REFERENCE: C1041/7014 (AWS)
; CURRENT APPLICATION NUMBER: US/09/895,007A
; PRIOR FILING DATE: 2001-06-28
; PRIOR APPLICATION NUMBER: US 60/214,368
; NUMBER OF SEQ ID NOS: 133
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-19
```

```

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      1  TCCATGACGTTCTCGATGCT 20
DB      1  TCCATGACGTTCTCGATGCT 20
```

```

RESULT 6
US-09-920-313-19
; Sequence 19, Application US/09920313
; Publication No. US20020198165A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; TITLE OF INVENTION: Nucleic Acids for the Prevention and
; FILE REFERENCE: C1037/7019 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/920,313
; PRIOR FILING DATE: 2001-08-01
; PRIOR APPLICATION NUMBER: US 60/222,248
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-920-313-19
```

```

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      1  TCCATGACGTTCTCGATGCT 20
DB      1  TCCATGACGTTCTCGATGCT 20
```

```

RESULT 7
US-09-415-142-25
; Sequence 25, Application US/09415142
; Publication No. US20030026782A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Klimmen, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
```

```

; CURRENT APPLICATION NUMBER: US/09/415,142
; CURRENT FILING DATE: 1999-10-09
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-415-142-25
```

```

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      1  TCCATGACGTTCTCGATGCT 20
DB      1  TCCATGACGTTCTCGATGCT 20
```

```

RESULT 8
US-09-888-326-127
; Sequence 127, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; PRIOR FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 127
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)..(0)
; OTHER INFORMATION: phosphodiester backbone
; NAME/KEY: misc_feature
; LOCATION: (1)..(1)
; OTHER INFORMATION: biotinylated at 5' end
US-09-888-326-127
```

```

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```

QY      1  TCCATGACGTTCTCGATGCT 20
DB      1  TCCATGACGTTCTCGATGCT 20
```

```

RESULT 9
US-09-888-326-566
; Sequence 566, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AWS)
; CURRENT APPLICATION NUMBER: US/09/888,326
```


;; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
;; FILE REFERENCE: C1039/7048 (AMS)
;; CURRENT APPLICATION NUMBER: US/09/818,918
;; CURRENT FILING DATE: 2001-03-27
;; PRIOR APPLICATION NUMBER: US 08/276,358
;; PRIOR FILING DATE: 1994-07-15
;; PRIOR APPLICATION NUMBER: US 08/386,063
;; PRIOR FILING DATE: 1995-02-07
;; PRIOR APPLICATION NUMBER: US 08/738,652
;; PRIOR FILING DATE: 1996-10-30
;; NUMBER OF SEQ ID NOS: 56
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 44
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-44

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TCATGACGTTCTGATGCT 20
Db 1 TCATGACGTTCTGATGCT 20

RESULT 14
US-09-818-54
;; Sequence 54, Application US/09818918
;; Publication No. US20030050261A1
;; GENERAL INFORMATION:
;; APPLICANT: Krieg, Arthur M.
;; APPLICANT: Kline, Joel N.
;; APPLICANT: Klinman, Dennis
;; APPLICANT: Steinberg, Alfred D.
;; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
;; FILE REFERENCE: C1039/7048 (AMS)
;; CURRENT APPLICATION NUMBER: US/09/818,918
;; CURRENT FILING DATE: 2001-03-27
;; PRIOR APPLICATION NUMBER: US 08/276,358
;; PRIOR FILING DATE: 1994-07-15
;; PRIOR APPLICATION NUMBER: US 08/386,063
;; PRIOR FILING DATE: 1995-02-07
;; PRIOR APPLICATION NUMBER: US 08/738,652
;; PRIOR FILING DATE: 1996-10-30
;; NUMBER OF SEQ ID NOS: 56
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 54
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-54

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TCATGACGTTCTGATGCT 20
Db 1 TCATGACGTTCTGATGCT 20

RESULT 15
US-09-931-583-25
;; Sequence 25, Application US/09931583
;; Publication No. US20030050263A1
;; GENERAL INFORMATION:
;; APPLICANT: Krieg, Arthur

;; APPLICANT: Klinman, Dennis
;; APPLICANT: Steinberg, Alfred
;; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
;; FILE REFERENCE: C1039/7053 (HCL)
;; CURRENT APPLICATION NUMBER: US/09/931,583
;; CURRENT FILING DATE: 2001-08-16
;; PRIOR APPLICATION NUMBER: US 08/276,358
;; PRIOR FILING DATE: 1994-07-15
;; PRIOR APPLICATION NUMBER: US 09/415,142
;; PRIOR FILING DATE: 1999-10-09
;; NUMBER OF SEQ ID NOS: 75
;; SOFTWARE: PatentIn version 3.0
;; SEQ ID NO 25
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; NAME/KEY: misc feature
;; OTHER INFORMATION: Synthetic oligonucleotide
US-09-931-583-25

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TCATGACGTTCTGATGCT 20
Db 1 TCATGACGTTCTGATGCT 20

RESULT 16
US-09-931-583-48
;; Sequence 48, Application US/09931583
;; Publication No. US20030050263A1
;; GENERAL INFORMATION:
;; APPLICANT: Krieg, Arthur
;; APPLICANT: Klinman, Dennis
;; APPLICANT: Steinberg, Alfred
;; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
;; FILE REFERENCE: C1039/7053 (HCL)
;; CURRENT APPLICATION NUMBER: US/09/931,583
;; CURRENT FILING DATE: 2001-08-16
;; PRIOR APPLICATION NUMBER: US 08/276,358
;; PRIOR FILING DATE: 1994-07-15
;; PRIOR APPLICATION NUMBER: US 09/415,142
;; PRIOR FILING DATE: 1999-10-09
;; NUMBER OF SEQ ID NOS: 75
;; SOFTWARE: PatentIn version 3.0
;; SEQ ID NO 48
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; NAME/KEY: misc feature
;; OTHER INFORMATION: Synthetic oligonucleotide
US-09-931-583-48

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 TCATGACGTTCTGATGCT 20
Db 1 TCATGACGTTCTGATGCT 20

RESULT 17
US-09-776-479-758
;; Sequence 758, Application US/09776479
;; Publication No. US20030087848A1
;; GENERAL INFORMATION:
;; APPLICANT: Bratzler, Robert L.
;; APPLICANT: Petersen, Deanna M.

APPLICANT: Fouton, Yves
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
TREATMENT OF ASTHMA AND ALLERGY
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR FILING DATE: 2000-02-03
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 758
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-758

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
DB 1 TCCATGACGTTCTCTGATGCT 20

RESULT 18
US-09-776-479-806
Sequence 806, Application US/09776479
Publication No. US20030087848A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
TREATMENT OF ASTHMA AND ALLERGY
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR FILING DATE: 2000-02-03
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 806
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-806

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
DB 1 TCCATGACGTTCTCTGATGCT 20

RESULT 19
US-09-776-479-865
Sequence 865, Application US/09776479
Publication No. US20030087848A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
TREATMENT OF ASTHMA AND ALLERGY
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479

CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179,991
PRIOR FILING DATE: 2000-02-03
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 865
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(3)
OTHER INFORMATION: Conjugated to biotin moiety.
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-865

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
DB 1 TCCATGACGTTCTCTGATGCT 20

RESULT 20
US-09-954-987B-84
Sequence 84, Application US/09954987B
Publication No. US20030104523A1
GENERAL INFORMATION:
APPLICANT: Stefan Bauer
APPLICANT: Grayson B. Lipford
TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
CPG-BASED IMMUNO-AGONIST/ANTAGONIST
FILE REFERENCE: C1041/7016 (AMS)
CURRENT APPLICATION NUMBER: US/09/954,987B
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: US 60/233,035
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/263,657
PRIOR FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 60/291,726
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 60/300,210
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 84
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-84

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTCTGATGCT 20
DB 1 TCCATGACGTTCTCTGATGCT 20

RESULT 21
US-09-954-987B-207
Sequence 207, Application US/09954987B
Publication No. US20030104523A1
GENERAL INFORMATION:
APPLICANT: Stefan Bauer
APPLICANT: Grayson B. Lipford

APPLICANT: Hermann Wagner
 TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
 TITLE OF INVENTION: CPG-BASED IMMUNO-AGONIST/ANTAGONIST
 FILE REFERENCE: C1041/7016 (AMS)
 CURRENT APPLICATION NUMBER: US/09/954,987B
 PRIOR FILING DATE: 2001-09-17
 PRIOR APPLICATION NUMBER: US 60/233,035
 PRIOR FILING DATE: 2000-09-15
 PRIOR APPLICATION NUMBER: US 60/263,657
 PRIOR FILING DATE: 2001-01-23
 PRIOR APPLICATION NUMBER: US 60/291,726
 PRIOR FILING DATE: 2001-05-17
 PRIOR APPLICATION NUMBER: US 60/300,210
 PRIOR FILING DATE: 2001-06-22
 NUMBER OF SEQ ID NOS: 230
 SOFTWARE: fastseq for windows version 3.0
 SEQ ID NO 207
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Synthetic oligonucleotide
 NAME/KEY: modified base
 LOCATION: (8)...(8)
 OTHER INFORMATION: msc
 US-09-954-987B-207

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 6.4;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
 DB 1 TCCATGACGTTCTGATGCT 20

RESULT 22
 US-09-967-464-7
 Sequence 7, Application US/09967464
 Publication No. US20030138453A1
 GENERAL INFORMATION:
 APPLICANT: O'Hagan, Derek
 APPLICANT: Otten, Gillis
 APPLICANT: Donnelly, John J.
 APPLICANT: Polo, John M.
 APPLICANT: Barnett, Susan
 APPLICANT: Singh, Mamohan
 APPLICANT: Ulmer, Jeffrey
 APPLICANT: Dubeney, Jr, Thomas W.
 TITLE OF INVENTION: MICROPARTICLES FOR DELIVERY OF HETEROLOGOUS NUCLEIC ACIDS
 FILE REFERENCE: P16269.004
 CURRENT APPLICATION NUMBER: US/09/967,464
 CURRENT FILING DATE: 2002-04-11
 PRIOR APPLICATION NUMBER: 60/236,105
 PRIOR FILING DATE: 2000-09-28
 PRIOR APPLICATION NUMBER: 60/315,905
 PRIOR FILING DATE: 2001-08-30
 NUMBER OF SEQ ID NOS: 68
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO 7
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Artificial sequence is synthesized
 US-09-967-464-7

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 6.4;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 TCCATGACGTTCTGATGCT 20

DB 1 TCCATGACGTTCTGATGCT 20

RESULT 23
 US-09-874-991C-27
 Sequence 27, Application US/09874991C
 Publication No. US20040052763A1
 GENERAL INFORMATION:
 APPLICANT: MOND, JAMES J.
 APPLICANT: FLORA, MICHAEL
 APPLICANT: KLINMAN, DENNIS M.
 TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
 FILE REFERENCE: 07787.0042-0
 CURRENT APPLICATION NUMBER: US/09/874,991C
 CURRENT FILING DATE: 2001-06-07
 PRIOR APPLICATION NUMBER: 60/209,797
 PRIOR FILING DATE: 2000-06-07
 NUMBER OF SEQ ID NOS: 620
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 27
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
 US-09-874-991C-27

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 6.4;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
 DB 1 TCCATGACGTTCTGATGCT 20

RESULT 24
 US-09-874-991C-93
 Sequence 93, Application US/09874991C
 Publication No. US20040052763A1
 GENERAL INFORMATION:
 APPLICANT: MOND, JAMES J.
 APPLICANT: FLORA, MICHAEL
 APPLICANT: KLINMAN, DENNIS M.
 TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
 FILE REFERENCE: 07787.0042-0
 CURRENT APPLICATION NUMBER: US/09/874,991C
 CURRENT FILING DATE: 2001-06-07
 PRIOR APPLICATION NUMBER: 60/209,797
 PRIOR FILING DATE: 2000-06-07
 NUMBER OF SEQ ID NOS: 620
 SOFTWARE: PatentIn Ver. 2.1
 SEQ ID NO 93
 LENGTH: 20
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
 US-09-874-991C-93

Query Match 100.0%; Score 20; DB 3; Length 20;
 Best Local Similarity 100.0%; Pred. No. 6.4;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
 DB 1 TCCATGACGTTCTGATGCT 20

RESULT 25
 US-09-874-991C-114
 Sequence 114, Application US/09874991C

```
/ Publication No. US20040052763A1
/ GENERAL INFORMATION:
/ APPLICANT: MOND, JAMES J.
/ APPLICANT: FLORA, MICHAEL
/ APPLICANT: KLINMAN, DENNIS M.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
/ FILE REFERENCE: 07787.0042-0
/ CURRENT APPLICATION NUMBER: US/09/874,991C
/ CURRENT FILING DATE: 2001-06-07
/ PRIOR APPLICATION NUMBER: 60/209,797
/ PRIOR FILING DATE: 2000-06-07
/ NUMBER OF SEQ ID NOS: 620
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 114
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-114

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTCTGATGCT 20
DB 1 TCATGACGTTCTCTGATGCT 20

RESULT 26
US-09-874-991C-138
/ Sequence 138, Application US/09874991C
/ Publication No. US20040052763A1
/ GENERAL INFORMATION:
/ APPLICANT: MOND, JAMES J.
/ APPLICANT: FLORA, MICHAEL
/ APPLICANT: KLINMAN, DENNIS M.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
/ FILE REFERENCE: 07787.0042-0
/ CURRENT APPLICATION NUMBER: US/09/874,991C
/ CURRENT FILING DATE: 2001-06-07
/ PRIOR APPLICATION NUMBER: 60/209,797
/ PRIOR FILING DATE: 2000-06-07
/ NUMBER OF SEQ ID NOS: 620
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 138
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-138

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTCTGATGCT 20
DB 1 TCATGACGTTCTCTGATGCT 20

RESULT 27
US-09-874-991C-165
/ Sequence 165, Application US/09874991C
/ Publication No. US20040052763A1
/ GENERAL INFORMATION:
/ APPLICANT: MOND, JAMES J.
/ APPLICANT: FLORA, MICHAEL
/ APPLICANT: KLINMAN, DENNIS M.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
/ FILE REFERENCE: 07787.0042-0
```

```
/ CURRENT APPLICATION NUMBER: US/09/874,991C
/ CURRENT FILING DATE: 2001-06-07
/ PRIOR APPLICATION NUMBER: 60/209,797
/ PRIOR FILING DATE: 2000-06-07
/ NUMBER OF SEQ ID NOS: 620
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 165
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-165

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTCTGATGCT 20
DB 1 TCATGACGTTCTCTGATGCT 20

RESULT 28
US-09-874-991C-186
/ Sequence 186, Application US/09874991C
/ Publication No. US20040052763A1
/ GENERAL INFORMATION:
/ APPLICANT: MOND, JAMES J.
/ APPLICANT: FLORA, MICHAEL
/ APPLICANT: KLINMAN, DENNIS M.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
/ FILE REFERENCE: 07787.0042-0
/ CURRENT APPLICATION NUMBER: US/09/874,991C
/ CURRENT FILING DATE: 2001-06-07
/ PRIOR APPLICATION NUMBER: 60/209,797
/ PRIOR FILING DATE: 2000-06-07
/ NUMBER OF SEQ ID NOS: 620
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 186
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-186

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTCTGATGCT 20
DB 1 TCATGACGTTCTCTGATGCT 20

RESULT 29
US-09-874-991C-406
/ Sequence 406, Application US/09874991C
/ Publication No. US20040052763A1
/ GENERAL INFORMATION:
/ APPLICANT: MOND, JAMES J.
/ APPLICANT: FLORA, MICHAEL
/ APPLICANT: KLINMAN, DENNIS M.
/ TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
/ FILE REFERENCE: 07787.0042-0
/ CURRENT APPLICATION NUMBER: US/09/874,991C
/ CURRENT FILING DATE: 2001-06-07
/ PRIOR APPLICATION NUMBER: 60/209,797
/ PRIOR FILING DATE: 2000-06-07
/ NUMBER OF SEQ ID NOS: 620
/ SOFTWARE: PatentIn Ver. 2.1
/ SEQ ID NO 406
```


LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-406

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 30
US-09-874-991C-425
Sequence 425, Application US/09874991C
Publication No. US20040052763A1
GENERAL INFORMATION:
APPLICANT: MOND, JAMES J.
APPLICANT: FLORA, MICHAEL
APPLICANT: KLIMMAN, DENNIS M.
TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
FILE REFERENCE: 07787, 0042-0
CURRENT FILING DATE: US/09/874, 991C
PRIOR FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 60/209,797
NUMBER OF SEQ ID NOS: 620
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 425
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-425

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 31
US-09-776-479-758
Sequence 758, Application US/09776479
Publication No. US20040067902A9
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
APPLICANT: Fouron, Yves
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT FILING DATE: US/09/776, 479
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179, 991
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 758
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-758

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 32
US-09-776-479-806
Sequence 806, Application US/09776479
Publication No. US20040067902A9
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
APPLICANT: Fouron, Yves
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT FILING DATE: US/09/776, 479
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179, 991
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 806
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-806

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 33
US-09-776-479-865
Sequence 865, Application US/09776479
Publication No. US20040067902A9
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
APPLICANT: Fouron, Yves
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
FILE REFERENCE: C1037/7013 (HCL/MAT)
CURRENT FILING DATE: US/09/776, 479
PRIOR FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/179, 991
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 865
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(3)
OTHER INFORMATION: Conjugated to biotin moiety.
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-776-479-865

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGTGCT 20
Db 1 TCCATGACGTTCTGTGCT 20

RESULT 34

US-09-965-101-68
; Sequence 68, Application US/09965101
; Publication No. US20040186067A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FaSeq for Windows Version 3.0
; SEQ ID NO 68
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has a phosphodiester backbone.
US-09-965-101-68

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGTGCT 20
Db 1 TCCATGACGTTCTGTGCT 20

RESULT 35

US-09-965-101-79
; Sequence 79, Application US/09965101
; Publication No. US20040186067A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FaSeq for Windows Version 3.0

; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-79

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGTGCT 20
Db 1 TCCATGACGTTCTGTGCT 20

RESULT 36

US-10-023-909A-19
; Sequence 19, Application US/10023909A
; Publication No. US20020164341A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7058/HCL
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FaSeq for Windows Version 3.0
; SEQ ID NO 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-023-909A-19

Query Match 100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGTGCT 20
Db 1 TCCATGACGTTCTGTGCT 20

RESULT 37

US-10-205-150-7
; Sequence 7, Application US/10205150
; Publication No. US20020197269A1
; GENERAL INFORMATION:
; APPLICANT: LINGNAU, KAREN ET AL.
; TITLE OF INVENTION: PHARMACEUTICAL COMPOSITION FOR IMMUNOMODULATION AND PREPARATION
; TITLE OF INVENTION: OF VACCINES COMPRISING AN ANTIGEN AND AN IMMUNOGENIC OLIGODEOXYR
; FILE REFERENCE: SONN:018US
; CURRENT FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: US/10/205,150
; PRIOR FILING DATE: 2002-07-25
; PRIOR APPLICATION NUMBER: PCT/EP01/00087
; PRIOR FILING DATE: 2001-01-05
; NUMBER OF SEQ ID NOS: 9
; SOFTWARE: PatentIn Ver. 2.1

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; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-10-205-150-7
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Query Match      100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1  TCCATGACGTTCTGATGCT 20
Db      1  TCCATGACGTTCTGATGCT 20
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RESULT 38

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US-10-011-635A-1
; Sequence 1, Application US/10011635A
; Publication No. US20030003579A1
; GENERAL INFORMATION:
; APPLICANT: Kadowaki, No. US20030003579A1mitsu
; APPLICANT: Liu, Yong-Jun
; TITLE OF INVENTION: Dendritic cells; Methods
; FILE REFERENCE: DX01206
; CURRENT APPLICATION NUMBER: US/10/011,635A
; CURRENT FILING DATE: 2001-10-22
; PRIOR APPLICATION NUMBER: 60/243,232
; PRIOR FILING DATE: 2000-10-24
; NUMBER OF SEQ ID NOS: 6
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 1
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Sparwasser, et al. (1998) Eur. J. Immunol. 28:2045-2054.
; NAME/KEY: misc feature
; LOCATION: (1)..(20)
; OTHER INFORMATION: From Sparwasser, et al. (1998).
; NAME/KEY: misc feature
; LOCATION: (1)..(20)
; OTHER INFORMATION: Sparwasser, et al. (1998) Eur. J. Immunol. 28:2045-2054.
US-10-011-635A-1
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Query Match      100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATGACGTTCTGATGCT 20
Db      1  TCCATGACGTTCTGATGCT 20
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RESULT 39

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US-10-112-653-10
; Sequence 10, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; FILE REFERENCE: C01039/70060(AWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
```

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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-10-112-653-10
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Query Match      100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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```
Qy      1  TCCATGACGTTCTGATGCT 20
Db      1  TCCATGACGTTCTGATGCT 20
```

RESULT 40

```
US-10-112-653-11
; Sequence 11, Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; FILE REFERENCE: C01039/70060(AWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (13)...(13)
; OTHER INFORMATION: m5c
US-10-112-653-11
```

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Query Match      100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 6.4;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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Qy      1  TCCATGACGTTCTGATGCT 20
Db      1  TCCATGACGTTCTGATGCT 20
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Job time : 420.057 secs
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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioacceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 01:35:44 ; Search time 89.8113 Seconds

(without alignments)
395.844 Million cell updates/sec

Title: US-09-337-584-7

Perfect score: 20

Sequence: 1 tccatgacgtcccgatgct 20

Scoring table: IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database : Issued Patents NA:
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2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/PCUTUS_COMB.seq:*
7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
9: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	2 US-09-133-774-11	Sequence 11, Appl
2	20	100.0	20	3 US-08-386-063-25	Sequence 25, Appl
3	20	100.0	20	3 US-09-303-862-11	Sequence 11, Appl
4	20	100.0	20	3 US-08-386-063-25	Sequence 25, Appl
5	20	100.0	20	3 US-08-738-652-7	Sequence 7, Appl
6	20	100.0	20	3 US-08-738-652-35	Sequence 35, Appl
7	20	100.0	20	3 US-08-738-652-44	Sequence 44, Appl
8	20	100.0	20	3 US-08-738-652-54	Sequence 54, Appl
9	20	100.0	20	3 US-09-286-098-24	Sequence 24, Appl
10	20	100.0	20	3 US-08-960-774-7	Sequence 7, Appl
11	20	100.0	20	3 US-09-083-649B-68	Sequence 68, Appl
12	20	100.0	20	3 US-09-083-649B-79	Sequence 79, Appl
13	20	100.0	20	3 US-09-325-193A-19	Sequence 19, Appl
14	20	100.0	20	3 US-09-191-170-24	Sequence 24, Appl
15	20	100.0	20	3 US-09-171-425-5	Sequence 5, Appl
16	20	100.0	20	3 US-09-171-425-14	Sequence 14, Appl
17	20	100.0	20	3 US-09-690-921-5	Sequence 5, Appl
18	20	100.0	20	3 US-09-791-500-7	Sequence 7, Appl
19	20	100.0	20	3 US-09-337-619-7	Sequence 7, Appl
20	20	100.0	20	3 US-09-965-101-68	Sequence 68, Appl
21	20	100.0	20	3 US-09-965-101-79	Sequence 79, Appl
22	20	100.0	20	3 US-10-764-718-2	Sequence 2, Appl
23	20	100.0	20	3 US-09-954-987B-84	Sequence 84, Appl
24	20	100.0	20	3 US-09-954-987B-207	Sequence 207, App

25	20	100.0	20	3 US-09-672-126B-84	Sequence 84, Appl
26	20	100.0	29	3 US-08-848-229-2	Sequence 2, Appl
27	20	100.0	29	3 US-09-022-965-2	Sequence 2, Appl
28	19	95.0	19	3 US-09-770-602-1	Sequence 1, Appl
29	19	95.0	19	3 US-09-770-602-2	Sequence 2, Appl
30	19	95.0	19	3 US-09-770-602-3	Sequence 3, Appl
31	19	95.0	19	3 US-09-770-602-4	Sequence 4, Appl
32	19	95.0	19	3 US-09-770-602-5	Sequence 5, Appl
33	19	95.0	19	3 US-09-770-602-6	Sequence 6, Appl
34	19	95.0	19	3 US-09-770-602-7	Sequence 7, Appl
35	19	95.0	19	3 US-08-738-652-3	Sequence 3, Appl
36	18.4	92.0	20	3 US-08-738-652-40	Sequence 40, Appl
37	18.4	92.0	20	3 US-08-738-652-43	Sequence 43, Appl
38	18.4	92.0	20	3 US-08-738-652-45	Sequence 45, Appl
39	18.4	92.0	20	3 US-08-738-652-46	Sequence 46, Appl
40	18.4	92.0	20	3 US-08-738-652-47	Sequence 47, Appl
41	18.4	92.0	20	3 US-08-738-652-48	Sequence 48, Appl
42	18.4	92.0	20	3 US-08-738-652-49	Sequence 49, Appl
43	18.4	92.0	20	3 US-09-030-701-5	Sequence 5, Appl
44	18.4	92.0	20	3 US-09-286-098-45	Sequence 45, Appl
45	18.4	92.0	20	3 US-09-286-098-48	Sequence 48, Appl
46	18.4	92.0	20	3 US-09-286-098-49	Sequence 49, Appl
47	18.4	92.0	20	3 US-09-286-098-50	Sequence 50, Appl
48	18.4	92.0	20	3 US-09-286-098-56	Sequence 56, Appl
49	18.4	92.0	20	3 US-08-960-774-3	Sequence 3, Appl
50	18.4	92.0	20	3 US-08-960-774-35	Sequence 35, Appl
51	18.4	92.0	20	3 US-08-960-774-38	Sequence 38, Appl
52	18.4	92.0	20	3 US-08-960-774-39	Sequence 39, Appl
53	18.4	92.0	20	3 US-08-960-774-47	Sequence 47, Appl
54	18.4	92.0	20	3 US-08-960-774-49	Sequence 49, Appl
55	18.4	92.0	20	3 US-09-325-193A-42	Sequence 42, Appl
56	18.4	92.0	20	3 US-09-325-193A-43	Sequence 43, Appl
57	18.4	92.0	20	3 US-09-325-193A-44	Sequence 44, Appl
58	18.4	92.0	20	3 US-09-325-193A-45	Sequence 45, Appl
59	18.4	92.0	20	3 US-09-325-193A-46	Sequence 46, Appl
60	18.4	92.0	20	3 US-09-325-193A-47	Sequence 47, Appl
61	18.4	92.0	20	3 US-09-325-193A-48	Sequence 48, Appl
62	18.4	92.0	20	3 US-09-325-193A-49	Sequence 49, Appl
63	18.4	92.0	20	3 US-09-191-170-43	Sequence 43, Appl
64	18.4	92.0	20	3 US-09-191-170-44	Sequence 44, Appl
65	18.4	92.0	20	3 US-09-191-170-45	Sequence 45, Appl
66	18.4	92.0	20	3 US-09-191-170-51	Sequence 51, Appl
67	18.4	92.0	20	3 US-09-296-477-18	Sequence 18, Appl
68	18.4	92.0	20	3 US-09-337-619-3	Sequence 3, Appl
69	18.4	92.0	20	3 US-09-337-619-35	Sequence 35, Appl
70	18.4	92.0	20	3 US-09-337-619-38	Sequence 38, Appl
71	18.4	92.0	20	3 US-09-337-619-39	Sequence 39, Appl
72	18.4	92.0	20	3 US-09-337-619-47	Sequence 47, Appl
73	18.4	92.0	20	3 US-09-337-619-49	Sequence 49, Appl
74	18.4	92.0	20	3 US-09-337-619-87	Sequence 87, Appl
75	18.4	92.0	20	3 US-09-337-619-88	Sequence 88, Appl
76	18.4	92.0	20	3 US-09-337-619-89	Sequence 89, Appl
77	18.4	92.0	20	3 US-09-337-619-97	Sequence 97, Appl
78	18.4	92.0	20	3 US-09-495-947-4	Sequence 4, Appl
79	18.4	92.0	20	3 US-09-954-987B-77	Sequence 77, Appl
80	18.4	92.0	20	3 US-09-954-987B-80	Sequence 80, Appl
81	18.4	92.0	20	3 US-09-954-987B-81	Sequence 81, Appl
82	18.4	92.0	20	3 US-09-954-987B-82	Sequence 82, Appl
83	18.4	92.0	20	3 US-09-954-987B-96	Sequence 96, Appl
84	18.4	92.0	20	3 US-09-672-126B-77	Sequence 77, Appl
85	18.4	92.0	20	3 US-09-672-126B-80	Sequence 80, Appl
86	18.4	92.0	20	3 US-09-672-126B-81	Sequence 81, Appl
87	17.4	87.0	20	3 US-09-672-126B-82	Sequence 82, Appl
88	17.4	87.0	20	3 US-09-030-701-25	Sequence 25, Appl
89	17.4	87.0	20	3 US-08-960-774-44	Sequence 44, Appl
90	17.4	87.0	20	3 US-09-082-649B-72	Sequence 72, Appl
91	17.4	87.0	20	3 US-09-337-619-49	Sequence 49, Appl
92	16.8	84.0	20	2 US-08-436-714-7	Sequence 7, Appl
93	16.8	84.0	20	2 US-08-442-705-7	Sequence 7, Appl
94	16.8	84.0	20	2 US-08-332-729-7	Sequence 7, Appl
95	16.8	84.0	20	2 US-09-133-774-12	Sequence 12, Appl
96	16.8	84.0	20	3 US-08-386-063-21	Sequence 21, Appl
97	16.8	84.0	20	3 US-09-303-862-12	Sequence 12, Appl

98 16.8 84.0 20 3 US-08-386-063-21 Sequence 21, Appl
99 16.8 84.0 20 3 US-08-738-652-10 Sequence 10, Appl
100 16.8 84.0 20 3 US-08-738-652-31 Sequence 31, Appl

ALIGNMENTS

RESULT 1

US-09-133-774-11

Sequence 11, Application US/09133774B

Patent No. 5962636

GENERAL INFORMATION:

APPLICANT: Bachmaier, Kurt

APPLICANT: Hessel, Andrew J.

APPLICANT: Neu M.D., Nikolaus

APPLICANT: Penninger, Josef M.

TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart

TITLE OF INVENTION: Disease

FILE REFERENCE: A-536

CURRENT APPLICATION NUMBER: US/09/133,774B

CURRENT FILING DATE: 1998-08-12

NUMBER OF SEQ ID NOS: 26

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 11

LENGTH: 20

TYPE: DNA

ORGANISM: Chlamydia trachomatis

FEATURE:

OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a

OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from

OTHER INFORMATION: Chlamydia trachomatis.

US-09-133-774-11

Query Match

100.0%; Score 20; DB 2; Length 20;

Best Local Similarity 100.0%; Pred. No. 1.1;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTCCTGATGCT 20

DB 1 TCATGACGTCCTGATGCT 20

RESULT 2

US-08-386-063-25

Sequence 25, Application US/08386063

Patent No. 6008200

GENERAL INFORMATION:

APPLICANT: Arthur M. Krieg, M.D.

TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 60 STATE STREET, SUITE 510

CITY: BOSTON

STATE: MASSACHUSETTS

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: ASCII text

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/386,063

FILING DATE:

CLASSIFICATION: 424

ATTORNEY/AGENT INFORMATION:

NAME: ARNOLD, BETH E.

REGISTRATION NUMBER: 35,430

REFERENCE/DOCKET NUMBER: UIZ-013CP

TELECOMMUNICATION INFORMATION:

TELEPHONE: (617) 227-7400

TELEFAX: (617) 227-5941

INFORMATION FOR SEQ ID NO: 25:

SEQUENCE CHARACTERISTICS:

LENGTH: 20 base pairs

TYPE: nucleic acid

STRANDEDNESS: single

TOPOLOGY: linear

MOLECULE TYPE: DNA

US-08-386-063-25

Query Match

100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 1.1;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTCCTGATGCT 20

DB 1 TCATGACGTCCTGATGCT 20

RESULT 3

US-09-303-862-11

Sequence 11, Application US/09303862

Patent No. 6034230

GENERAL INFORMATION:

APPLICANT: Bachmaier, Kurt

APPLICANT: Hessel, Andrew J.

APPLICANT: Neu M.D., Nikolaus

APPLICANT: Penninger, Josef M.

TITLE OF INVENTION: No. 6034230el Peptides Capable of Modulating Inflammatory Heart

TITLE OF INVENTION: Disease

FILE REFERENCE: A-536

CURRENT APPLICATION NUMBER: US/09/303,862

CURRENT FILING DATE: 1999-05-03

EARLIER APPLICATION NUMBER: 09/133,774

EARLIER FILING DATE: 1998-08-12

NUMBER OF SEQ ID NOS: 26

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 11

LENGTH: 20

TYPE: DNA

ORGANISM: Chlamydia trachomatis

FEATURE:

OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a

OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from

OTHER INFORMATION: Chlamydia trachomatis.

US-09-303-862-11

Query Match

100.0%; Score 20; DB 3; Length 20;

Best Local Similarity 100.0%; Pred. No. 1.1;

Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTCCTGATGCT 20

DB 1 TCATGACGTCCTGATGCT 20

RESULT 4

US-08-386-063-25

Sequence 25, Application US/08386063

Patent No. 6194388

GENERAL INFORMATION:

APPLICANT: Arthur M. Krieg, M.D.

TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES

NUMBER OF SEQUENCES: 27

CORRESPONDENCE ADDRESS:

ADDRESSEE: LAHIVE & COCKFIELD

STREET: 60 STATE STREET, SUITE 510

CITY: BOSTON

STATE: MASSACHUSETTS

COUNTRY: USA

ZIP: 02109-1875

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

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; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/386,063
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: ARNOLD, BETH E.
; REGISTRATION NUMBER: 35,430
; REFERENCE/DOCKET NUMBER: UIZ-013CP
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617)227-7400
; TELEFAX: (617)227-5941
; INFORMATION FOR SEQ ID NO: 25:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA
; US-08-386-063-25

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TTCATGACGTCCTGATGCT 20
Db      1  TTCATGACGTCCTGATGCT 20

RESULT 5
US-08-738-652-7
; Sequence 7, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-7

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TTCATGACGTCCTGATGCT 20
Db      1  TTCATGACGTCCTGATGCT 20

RESULT 6
US-08-738-652-35
; Sequence 35, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
```

```

; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-35

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TTCATGACGTCCTGATGCT 20
Db      1  TTCATGACGTCCTGATGCT 20

RESULT 7
US-08-738-652-44
; Sequence 44, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-44

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  TTCATGACGTCCTGATGCT 20
Db      1  TTCATGACGTCCTGATGCT 20

RESULT 8
US-08-738-652-54
; Sequence 54, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
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; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-54

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTAGACGCTTCCTGATGCT 20
    |||||
Db 1 TCCTAGACGCTTCCTGATGCT 20

RESULT 9
US-09-286-098-24
; Sequence 24, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-24

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTAGACGCTTCCTGATGCT 20
    |||||
Db 1 TCCTAGACGCTTCCTGATGCT 20

RESULT 10
US-08-960-774-7
; Sequence 7, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Kriegl, et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
```

```

; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 7:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-960-774-7

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTAGACGCTTCCTGATGCT 20
    |||||
Db 1 TCCTAGACGCTTCCTGATGCT 20

RESULT 11
US-09-082-649B-68
; Sequence 68, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Scholt, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 68
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has a phosphodiester backbone.
US-09-082-649B-68

Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTAGACGCTTCCTGATGCT 20
    |||||
Db 1 TCCTAGACGCTTCCTGATGCT 20

RESULT 12
```


US-09-082-649B-79
; Sequence 79, Application US/09082649B
; Patent No. 6339068
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-79

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 13
US-09-325-193A-19
; Sequence 19, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-19

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 14
US-09-191-170-24
; Sequence 24, Application US/09191170
; Patent No. 6429199
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-24

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 15
US-09-171-425-5
; Sequence 5, Application US/09171425A
; Patent No. 6465438
; GENERAL INFORMATION:
; APPLICANT: Schorr, Joachim
; APPLICANT: Baker, Henry J.
; APPLICANT: Smith, Bruce P.
; TITLE OF INVENTION: NUCLEIC ACID VACCINATION FOR PARVOVIRAL INFECTIONS
; FILE REFERENCE: 08909/003001
; CURRENT APPLICATION NUMBER: US/09/171,425A
; CURRENT FILING DATE: 1998-10-19
; EARLIER APPLICATION NUMBER: PCT/EP97/01943
; EARLIER FILING DATE: 1996-04-19
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated oligonucleotides
US-09-171-425-5

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

```
RESULT 16
US-09-171-425-14
; Sequence 14, Application US/09171425A
; Patent No. 6465438
; GENERAL INFORMATION:
; APPLICANT: Schorr, Joachim
; APPLICANT: Baker, Henry J.
; APPLICANT: Smith, Bruce F.
; TITLE OF INVENTION: NUCLEIC ACID VACCINATION FOR PARVOVIRAL INFECTIONS
; FILE REFERENCE: 08909/003001
; CURRENT APPLICATION NUMBER: US/09/171,425A
; CURRENT FILING DATE: 1998-10-19
; EARLIER APPLICATION NUMBER: PCT/EP97/01943
; EARLIER FILING DATE: 1996-04-19
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 14
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated oligonucleotides
US-09-171-425-14

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTGTATGCT 20
DB 1 TCATGACGTTCTGTATGCT 20

RESULT 17
US-09-690-921-5
; Sequence 5, Application US/09690921
; Patent No. 6544518
; GENERAL INFORMATION:
; APPLICANT: Friede, Martin
; APPLICANT: Gerard, Catherine
; APPLICANT: Hermand, Philippe
; TITLE OF INVENTION: Vaccines
; FILE REFERENCE: B45181-1
; CURRENT APPLICATION NUMBER: US/09/690,921
; CURRENT FILING DATE: 2000-10-18
; PRIOR APPLICATION NUMBER: PCT/EP00/02920
; PRIOR FILING DATE: 2000-04-04
; PRIOR APPLICATION NUMBER: 09/301,829
; PRIOR FILING DATE: 1999-04-29
; PRIOR APPLICATION NUMBER: 9908885.8
; PRIOR FILING DATE: 1999-04-19
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Human
US-09-690-921-5

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTGTATGCT 20
DB 1 TCATGACGTTCTGTATGCT 20

RESULT 18
US-09-791-500-7
; Sequence 7, Application US/09791500
; Patent No. 6613751
; GENERAL INFORMATION:
```

```
; APPLICANT: Raz, Eyal
; APPLICANT: Rachmiewitz, Daniel
; TITLE OF INVENTION: Method for Treating Inflammatory Bowel
; TITLE OF INVENTION: Disease and Other Forms of Gastrointestinal Inflammation.
; FILE REFERENCE: 6510-202US1
; CURRENT APPLICATION NUMBER: US/09/791,500
; CURRENT FILING DATE: 2001-02-22
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic polynucleotide sequence
US-09-791-500-7

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTGTATGCT 20
DB 1 TCATGACGTTCTGTATGCT 20

RESULT 19
US-09-337-619-7
; Sequence 7, Application US/09337619
; Patent No. 6653292
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/09/337,619
; CURRENT FILING DATE: 1999-06-21
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-7

Query Match
Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCATGACGTTCTGTATGCT 20
DB 1 TCATGACGTTCTGTATGCT 20

RESULT 20
US-09-965-101-68
; Sequence 68, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
```

;; TITLE OF INVENTION: Vectors and Methods for Immunization or
;; FILE OF INVENTION: Therapeutic Protocols
;; CURRENT APPLICATION NUMBER: C1039/7057 (HCL/MAT)
;; CURRENT FILING DATE: 2001-09-26
;; PRIOR APPLICATION NUMBER: US 09/082,649
;; PRIOR FILING DATE: 1998-05-20
;; PRIOR APPLICATION NUMBER: US 60/047,233
;; PRIOR FILING DATE: 1997-05-20
;; PRIOR APPLICATION NUMBER: US 60/047,209
;; PRIOR FILING DATE: 1997-05-20
;; NUMBER OF SEQ ID NOS: 84
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 68
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: synthetic oligonucleotide
;; NAME/KEY: misc_feature
;; LOCATION: (0)...(0)
;; OTHER INFORMATION: Has a phosphodiester backbone.
US-09-965-101-68

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
|||
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 21
US-09-965-101-79
;; Sequence 79, Application US/09965101
;; Patent No.: 6821957
;; GENERAL INFORMATION:
;; APPLICANT: Davis, Heather L.
;; APPLICANT: Kriegl, Arthur M.
;; APPLICANT: Schorr, Joachim
;; APPLICANT: Wu, Tong
;; TITLE OF INVENTION: Vectors and Methods for Immunization or
;; FILE OF INVENTION: Therapeutic Protocols
;; CURRENT APPLICATION NUMBER: US/09/965,101
;; CURRENT FILING DATE: 2001-09-26
;; PRIOR APPLICATION NUMBER: US 09/082,649
;; PRIOR FILING DATE: 1998-05-20
;; PRIOR APPLICATION NUMBER: US 60/047,233
;; PRIOR FILING DATE: 1997-05-20
;; PRIOR APPLICATION NUMBER: US 60/047,209
;; PRIOR FILING DATE: 1997-05-20
;; NUMBER OF SEQ ID NOS: 84
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 79
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-79

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
|||
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 22

US-10-764-718-2
;; Sequence 2, Application US/10764718
;; Patent No. 6875580
;; GENERAL INFORMATION:
;; APPLICANT: Paturel, Carine
;; APPLICANT: Trinchieri, Giorgio
;; APPLICANT: Pin, Jean-Jacques
;; TITLE OF INVENTION: Antibodies Specific for Plasmacytoid Dendritic Cells
;; FILE OF INVENTION: SF06011US01
;; CURRENT APPLICATION NUMBER: US/10/764,718
;; CURRENT FILING DATE: 2004-01-26
;; PRIOR APPLICATION NUMBER: US 60/443,244
;; PRIOR FILING DATE: 2003-01-28
;; NUMBER OF SEQ ID NOS: 2
;; SOFTWARE: PatentIn version 3.1
;; SEQ ID NO 2
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: oligodeoxynucleotide (ODN)
US-10-764-718-2

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
|||
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 23
US-09-954-987B-84
;; Sequence 84, Application US/09954987B
;; Patent No. 6943340
;; GENERAL INFORMATION:
;; APPLICANT: Stefan Bauer
;; APPLICANT: Grayson B. Lipford
;; APPLICANT: Hermann Wagner
;; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
;; FILE OF INVENTION: CPG-BASED IMMUNO-AGONIST/ANTAGONIST
;; CURRENT APPLICATION NUMBER: US/09/954,987B
;; CURRENT FILING DATE: 2001-09-17
;; PRIOR APPLICATION NUMBER: US 60/233,035
;; PRIOR FILING DATE: 2000-09-15
;; PRIOR APPLICATION NUMBER: US 60/263,657
;; PRIOR FILING DATE: 2001-01-23
;; PRIOR APPLICATION NUMBER: US 60/291,726
;; PRIOR FILING DATE: 2001-05-17
;; PRIOR APPLICATION NUMBER: US 60/300,210
;; PRIOR FILING DATE: 2001-06-22
;; NUMBER OF SEQ ID NOS: 230
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 84
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-84

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATGACGTTCTGATGCT 20
|||
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 24

US-09-954-987B-207
; Sequence 207, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lifford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; TITLE OF INVENTION: CPG-BASED IMMUNO-MONIST/ANTAGONIST
; FILE REFERENCE: C1041/7016 (AMS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; PRIOR FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 207
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; NAME/KEY: modified base
; LOCATION: (8)...(8)
; OTHER INFORMATION: m5c
US-09-954-987B-207

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTATGACGTTCTGTGCT 20
DB 1 TCCTATGACGTTCTGTGCT 20

RESULT 25
US-09-672-126B-84
; Sequence 84, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Kriegl, Arthur
; TITLE OF INVENTION: Methods Related to Immunostimulatory
; TITLE OF INVENTION: Nucleic Acid-Induced Interferon
; FILE REFERENCE: C1039/7044
; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 84
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-672-126B-84

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 1.1;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTATGACGTTCTGTGCT 20

DB 1 TCCTATGACGTTCTGTGCT 20

RESULT 26
US-08-848-229-2
; Sequence 2, Application US/08848229
; Patent No. 6426334
; GENERAL INFORMATION:
; APPLICANT: QIUYAN, Zhao
; TITLE OF INVENTION: OLIGONUCLEOTIDE MEDIATED SPECIFIC CYTOKINE INDUCTION
; TITLE OF INVENTION: AND IN VIVO PROTECTION FROM INFECTION
; FILE REFERENCE: 475-08-635
; CURRENT APPLICATION NUMBER: US/08/848,229
; CURRENT FILING DATE: 1997-04-30
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Cpg in HYB-0272
US-08-848-229-2

Query Match 100.0%; Score 20; DB 3; Length 29;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTATGACGTTCTGTGCT 20
DB 1 TCCTATGACGTTCTGTGCT 20

RESULT 27
US-09-022-965-2
; Sequence 2, Application US/09022965
; Patent No. 6624293
; GENERAL INFORMATION:
; APPLICANT: QIUYAN, Zhao
; TITLE OF INVENTION: OLIGONUCLEOTIDE MEDIATED SPECIFIC CYTOKINE INDUCTION
; TITLE OF INVENTION: AND IN VIVO PROTECTION FROM INFECTION
; FILE REFERENCE: 475-08-635
; CURRENT APPLICATION NUMBER: US/09/022,965
; CURRENT FILING DATE: 1998-02-12
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 2
; LENGTH: 29
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Cpg in HYB-0272
US-09-022-965-2

Query Match 100.0%; Score 20; DB 3; Length 29;
Best Local Similarity 100.0%; Pred. No. 1.2;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCTATGACGTTCTGTGCT 20
DB 1 TCCTATGACGTTCTGTGCT 20

RESULT 28
US-09-770-602-1
; Sequence 1, Application US/09770602
; Patent No. 6815429
; GENERAL INFORMATION:
; APPLICANT: ARAVALI, SUDHIR
; TITLE OF INVENTION: MODULATION OF OLIGONUCLEOTIDE CPG-MEDIATED IMMUNE
; TITLE OF INVENTION: STIMULATION BY POSITIONAL MODIFICATION OF NUCLEOSIDES
; FILE REFERENCE: HYB-003US1

```

; CURRENT APPLICATION NUMBER: US/09/770,602
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,562
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 1
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
US-09-770-602-1
```

```

Query Match      95.0%; Score 19; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TCCATGACGTTCCGTGATGC 19
Db      1 TCCATGACGTTCCGTGATGC 19
```

```

RESULT 29
US-09-770-602-2
; Sequence 2, Application US/09770602
; Patent No. 6815429
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; TITLE OF INVENTION: MODULATION OF OLIGONUCLEOTIDE CPG-MEDIATED IMMUNE
; TITLE OF INVENTION: STIMULATION BY POSITIONAL MODIFICATION OF NUCLEOSIDES
; FILE REFERENCE: HYB-003U01
; CURRENT APPLICATION NUMBER: US/09/770,602
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,562
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 2
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (7)
; OTHER INFORMATION: 3'-O-methyl modification
US-09-770-602-2
```

```

Query Match      95.0%; Score 19; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TCCATGACGTTCCGTGATGC 19
Db      1 TCCATGACGTTCCGTGATGC 19
```

```

RESULT 30
US-09-770-602-3
; Sequence 3, Application US/09770602
; Patent No. 6815429
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; TITLE OF INVENTION: MODULATION OF OLIGONUCLEOTIDE CPG-MEDIATED IMMUNE
; TITLE OF INVENTION: STIMULATION BY POSITIONAL MODIFICATION OF NUCLEOSIDES
; FILE REFERENCE: HYB-003U01
; CURRENT APPLICATION NUMBER: US/09/770,602
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,562
```

```

; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 3
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (5)
; OTHER INFORMATION: 3'-O-methyl modification
US-09-770-602-3
```

```

Query Match      95.0%; Score 19; DB 3; Length 19;
Best Local Similarity 94.7%; Pred. No. 3.6;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TCCATGACGTTCCGTGATGC 19
Db      1 TCCATGACGTTCCGTGATGC 19
```

```

RESULT 31
US-09-770-602-4
; Sequence 4, Application US/09770602
; Patent No. 6815429
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; TITLE OF INVENTION: MODULATION OF OLIGONUCLEOTIDE CPG-MEDIATED IMMUNE
; TITLE OF INVENTION: STIMULATION BY POSITIONAL MODIFICATION OF NUCLEOSIDES
; FILE REFERENCE: HYB-003U01
; CURRENT APPLICATION NUMBER: US/09/770,602
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,562
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: PatentIn Ver. 3.2
; SEQ ID NO 4
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (4)
; OTHER INFORMATION: 3'-O-methyl modification
US-09-770-602-4
```

```

Query Match      95.0%; Score 19; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1 TCCATGACGTTCCGTGATGC 19
Db      1 TCCATGACGTTCCGTGATGC 19
```

```

RESULT 32
US-09-770-602-5
; Sequence 5, Application US/09770602
; Patent No. 6815429
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; TITLE OF INVENTION: MODULATION OF OLIGONUCLEOTIDE CPG-MEDIATED IMMUNE
; TITLE OF INVENTION: STIMULATION BY POSITIONAL MODIFICATION OF NUCLEOSIDES
```

```

; FILE REFERENCE: HYB-003US1
; CURRENT APPLICATION NUMBER: US/09/770,602
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,562
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentln Ver. 3.2
; SEQ ID NO: 5
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Combined DNA/RNA Molecule:
; OTHER INFORMATION: Synthetic oligonucleotide
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (10)
; OTHER INFORMATION: 3'-O-methyl modification
US-09-770-602-5

Query Match          95.0%; Score 19; DB 3; Length 19;
Best Local Similarity 94.7%; Pred. No. 3.6;
Matches 18; Conservative 1; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGACGCTTCCTGATGC 19
DB      1 TCCATGACGCTTCCTGATGC 19

RESULT 33
US-09-770-602-6
; Sequence 6, Application US/09770602
; Patent No. 6815429
; GENERAL INFORMATION:
; APPLICANT: AGRAL, SUDHIR
; TITLE OF INVENTION: MODULATION OF OLIGONUCLEOTIDE CPG-MEDIATED IMMUNE
; TITLE OF INVENTION: STIMULATION BY POSITIONAL MODIFICATION OF NUCLEOSIDES
; FILE REFERENCE: HYB-003US1
; CURRENT APPLICATION NUMBER: US/09/770,602
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,562
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentln Ver. 3.2
; SEQ ID NO: 6
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (5)
; OTHER INFORMATION: 3'-O-methyl modification
US-09-770-602-6

Query Match          95.0%; Score 19; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGACGCTTCCTGATGC 19
DB      1 TCCATGACGCTTCCTGATGC 19

RESULT 34
US-09-770-602-7
; Sequence 7, Application US/09770602
; Patent No. 6815429
```

```

; GENERAL INFORMATION:
; APPLICANT: AGRAL, SUDHIR
; TITLE OF INVENTION: MODULATION OF OLIGONUCLEOTIDE CPG-MEDIATED IMMUNE
; TITLE OF INVENTION: STIMULATION BY POSITIONAL MODIFICATION OF NUCLEOSIDES
; FILE REFERENCE: HYB-003US1
; CURRENT APPLICATION NUMBER: US/09/770,602
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,562
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentln Ver. 3.2
; SEQ ID NO: 7
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (10)
; OTHER INFORMATION: 3'-O-methyl modification
US-09-770-602-7

Query Match          95.0%; Score 19; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGACGCTTCCTGATGC 19
DB      1 TCCATGACGCTTCCTGATGC 19
```

```

RESULT 35
US-09-770-602-8
; Sequence 8, Application US/09770602
; Patent No. 6815429
; GENERAL INFORMATION:
; APPLICANT: AGRAL, SUDHIR
; TITLE OF INVENTION: MODULATION OF OLIGONUCLEOTIDE CPG-MEDIATED IMMUNE
; TITLE OF INVENTION: STIMULATION BY POSITIONAL MODIFICATION OF NUCLEOSIDES
; FILE REFERENCE: HYB-003US1
; CURRENT APPLICATION NUMBER: US/09/770,602
; CURRENT FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,562
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentln Ver. 3.2
; SEQ ID NO: 8
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (11)
; OTHER INFORMATION: 3'-O-methyl modification
US-09-770-602-8

Query Match          95.0%; Score 19; DB 3; Length 19;
Best Local Similarity 100.0%; Pred. No. 3.6;
Matches 19; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 TCCATGACGCTTCCTGATGC 19
DB      1 TCCATGACGCTTCCTGATGC 19

RESULT 36
US-08-738-652-3
; Sequence 3, Application US/08738652B
```

```
Patent No. 6207646
GENERAL INFORMATION:
APPLICANT: Krieger, Arthur M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7004 HCL
CURRENT APPLICATION NUMBER: US/08/738,652B
CURRENT FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-3

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 3; Length 20;
Pred. No. 7.1;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 37
US-08-738-652-9
Sequence 9, Application US/08738652B
Patent No. 6207646
GENERAL INFORMATION:
APPLICANT: Krieger, Arthur M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7004 HCL
CURRENT APPLICATION NUMBER: US/08/738,652B
CURRENT FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 9
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-9

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 3; Length 20;
Pred. No. 7.1;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 38
US-08-738-652-40
Sequence 40, Application US/08738652B
Patent No. 6207646
GENERAL INFORMATION:
APPLICANT: Krieger, Arthur M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7004 HCL
CURRENT APPLICATION NUMBER: US/08/738,652B
CURRENT FILING DATE: 1996-10-30
```

```
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 40
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-40

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 3; Length 20;
Pred. No. 7.1;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 39
US-08-738-652-43
Sequence 43, Application US/08738652B
Patent No. 6207646
GENERAL INFORMATION:
APPLICANT: Krieger, Arthur M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7004 HCL
CURRENT APPLICATION NUMBER: US/08/738,652B
CURRENT FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 43
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-43

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 3; Length 20;
Pred. No. 7.1;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATGACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 40
US-08-738-652-45
Sequence 45, Application US/08738652B
Patent No. 6207646
GENERAL INFORMATION:
APPLICANT: Krieger, Arthur M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7004 HCL
CURRENT APPLICATION NUMBER: US/08/738,652B
CURRENT FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 45
```

```

; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-45

```

```

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 7.1;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

Qy      1  TCCATGACGCTTCTGTATGCT 20
        |||||
Db      1  TCCATACGCTTCTGTATGCT 20

```

```

Search completed: March 8, 2006, 01:51:51
Job time : 90.813 secs

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GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 20:06:26 ; Search time 308.113 Seconds
(without alignments)
149.769 Million cell updates/sec

Title: US-09-337-584-3

Perfect score: 20
Sequence: 1 tccataagtcctcgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 767375 seqs, 115364844 residues

Total number of hits satisfying chosen parameters: 15346750

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Published Applications NA New:*
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2: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/FCI_NEW_PUB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/US09_NEW_PUB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq2:*
11: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq3:*
12: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq4:*
13: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	20	100.0	20	8	US-10-619-279-3
2	20	100.0	20	8	US-10-435-656-3
3	20	100.0	20	8	US-10-435-656-45
4	20	100.0	20	12	US-11-127-654-750
5	20	100.0	20	12	US-11-134-918-3
6	20	100.0	20	12	US-11-134-918-45
7	20	100.0	20	12	US-11-031-460-3
8	20	100.0	20	12	US-11-031-460-45
9	20	100.0	20	12	US-11-067-587-45
10	20	100.0	20	12	US-11-067-587-75
11	20	100.0	20	12	US-11-067-587-85
12	20	100.0	20	12	US-11-099-683-65
13	19	95.0	20	12	US-11-099-683-66
14	18.4	92.0	20	8	US-10-497-591A-100
15	18.4	92.0	20	8	US-10-497-591A-12
16	18.4	92.0	20	8	US-10-468-561-9
17	18.4	92.0	20	8	US-10-619-279-7
18	18.4	92.0	20	8	US-10-435-656-7
19	18.4	92.0	20	8	US-10-435-656-35
20	18.4	92.0	20	8	US-10-435-656-44

21	18.4	92.0	20	10	US-11-127-797-25	Sequence 25, Appl
22	18.4	92.0	20	10	US-11-127-803-25	Sequence 25, Appl
23	18.4	92.0	20	10	US-11-128-127-25	Sequence 25, Appl
24	18.4	92.0	20	12	US-11-025-858-2	Sequence 2, Appl
25	18.4	92.0	20	12	US-11-025-858-6	Sequence 6, Appl
26	18.4	92.0	20	12	US-11-127-654-10	Sequence 10, Appl
27	18.4	92.0	20	12	US-11-127-654-11	Sequence 11, Appl
28	18.4	92.0	20	12	US-11-127-654-731	Sequence 731, App
29	18.4	92.0	20	12	US-11-127-654-779	Sequence 779, App
30	18.4	92.0	20	12	US-11-134-918-36	Sequence 836, App
31	18.4	92.0	20	12	US-11-134-918-7	Sequence 7, Appl
32	18.4	92.0	20	12	US-11-134-918-35	Sequence 35, Appl
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34	18.4	92.0	20	12	US-11-134-918-54	Sequence 54, Appl
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39	18.4	92.0	20	12	US-11-067-587-7	Sequence 7, Appl
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42	18.4	92.0	20	12	US-11-067-587-54	Sequence 54, Appl
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45	18.4	92.0	20	12	US-11-099-683-77	Sequence 77, Appl
46	18.4	92.0	20	12	US-11-099-683-78	Sequence 78, Appl
47	18.4	92.0	20	12	US-11-099-683-79	Sequence 79, Appl
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49	18.4	92.0	20	12	US-11-099-683-81	Sequence 81, Appl
50	18.4	92.0	20	12	US-11-127-654-200	Sequence 200, App
51	18	90.0	20	8	US-10-497-591A-13	Sequence 13, Appl
52	17.4	87.0	19	7	US-10-925-872-45	Sequence 45, Appl
53	17.4	87.0	19	12	US-11-173-938-89	Sequence 89, Appl
54	17.4	87.0	19	12	US-11-173-938-90	Sequence 90, Appl
55	17.4	87.0	19	12	US-11-173-938-91	Sequence 91, Appl
56	17.4	87.0	19	12	US-11-173-938-92	Sequence 92, Appl
57	17.4	87.0	19	12	US-11-173-938-93	Sequence 93, Appl
58	17.4	87.0	19	12	US-11-173-938-94	Sequence 94, Appl
59	17.4	87.0	19	12	US-11-173-938-95	Sequence 95, Appl
60	17.4	87.0	19	12	US-11-173-938-96	Sequence 96, Appl
61	17.4	87.0	19	12	US-11-173-938-97	Sequence 97, Appl
62	17.4	87.0	19	12	US-11-173-938-98	Sequence 98, Appl
63	17.4	87.0	19	12	US-11-173-938-99	Sequence 99, Appl
64	17.4	87.0	19	12	US-11-173-938-100	Sequence 100, App
65	17.4	87.0	19	12	US-11-173-938-101	Sequence 101, App
66	17.4	87.0	20	8	US-10-497-591A-14	Sequence 14, Appl
67	17.4	87.0	20	8	US-10-497-591A-71	Sequence 71, Appl
68	16.8	84.0	20	7	US-10-533-634-30	Sequence 30, Appl
69	16.8	84.0	20	8	US-10-619-279-9	Sequence 9, Appl
70	16.8	84.0	20	8	US-10-619-279-35	Sequence 35, Appl
71	16.8	84.0	20	8	US-10-619-279-98	Sequence 38, Appl
72	16.8	84.0	20	8	US-10-619-279-39	Sequence 39, Appl
73	16.8	84.0	20	8	US-10-619-279-40	Sequence 40, Appl
74	16.8	84.0	20	8	US-10-619-279-87	Sequence 87, Appl
75	16.8	84.0	20	8	US-10-619-279-88	Sequence 88, Appl
76	16.8	84.0	20	8	US-10-435-656-9	Sequence 9, Appl
77	16.8	84.0	20	8	US-10-435-656-10	Sequence 40, Appl
78	16.8	84.0	20	8	US-10-435-656-46	Sequence 46, Appl
79	16.8	84.0	20	8	US-10-435-656-47	Sequence 47, Appl
80	16.8	84.0	20	8	US-10-435-656-53	Sequence 53, Appl
81	16.8	84.0	20	12	US-11-127-654-8	Sequence 8, Appl
82	16.8	84.0	20	12	US-11-127-654-43	Sequence 43, Appl
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84	16.8	84.0	20	12	US-11-127-654-118	Sequence 118, App
85	16.8	84.0	20	12	US-11-127-654-129	Sequence 129, App
86	16.8	84.0	20	12	US-11-127-654-727	Sequence 727, App
87	16.8	84.0	20	12	US-11-127-654-732	Sequence 732, App
88	16.8	84.0	20	12	US-11-127-654-811	Sequence 811, App
89	16.8	84.0	20	12	US-11-127-654-812	Sequence 812, App
90	16.8	84.0	20	12	US-11-127-654-946	Sequence 946, App
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92	16.8	84.0	20	12	US-11-134-918-40	Sequence 40, Appl
93	16.8	84.0	20	12	US-11-134-918-43	Sequence 43, Appl

94 16.8 84.0 20 12 US-11-134-918-46 Sequence 46, Appl
95 16.8 84.0 20 12 US-11-134-918-47 Sequence 47, Appl
96 16.8 84.0 20 12 US-11-134-918-53 Sequence 53, Appl
97 16.8 84.0 20 12 US-11-031-460-9 Sequence 9, Appl
98 16.8 84.0 20 12 US-11-031-460-40 Sequence 40, Appl
99 16.8 84.0 20 12 US-11-031-460-43 Sequence 43, Appl
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ALIGNMENTS

RESULT 1
US-10-619-279-3
; Sequence 3, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; PRIOR FILING DATE: 2003-07-14
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-619-279-3

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGTGCT 20
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Db 1 TCCATACGTTCTGTGCT 20

RESULT 2
US-10-435-656-3
; Sequence 3, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-3

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Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGTGCT 20
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Db 1 TCCATACGTTCTGTGCT 20

RESULT 3
US-10-435-656-45
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; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
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; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-45

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Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TCCATACGTTCTGTGCT 20

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US-11-127-654-750
; Sequence 750, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039/70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 750
; LENGTH: 20
; TYPE: DNA

ORGANISM: Artificial sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-750

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Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 TCCATTAACGTTCTGATGCT 20

RESULT 5
US-11-134-918-3

Sequence 3, Application US/11334918
Publication No. US20050267064A1
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Klimman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT FILING DATE: US/11/134,918
PRIOR APPLICATION NUMBER: 2005-05-23
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-3

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATTAACGTTCTGATGCT 20
Db 1 TCCATTAACGTTCTGATGCT 20

RESULT 6
US-11-134-918-45

Sequence 45, Application US/11334918
Publication No. US20050267064A1
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Klimman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT FILING DATE: US/11/134,918
PRIOR APPLICATION NUMBER: 2005-05-23
PRIOR FILING DATE: US/09/818,918
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07

PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 45
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-45

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATTAACGTTCTGATGCT 20
Db 1 TCCATTAACGTTCTGATGCT 20

RESULT 7
US-11-031-460-3

Sequence 3, Application US/11031460
Publication No. US20050277609A1
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Klimman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT FILING DATE: 2005-01-07
PRIOR APPLICATION NUMBER: US/11/031,460
PRIOR FILING DATE: US/09/818,918
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-3

Query Match 100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATTAACGTTCTGATGCT 20
Db 1 TCCATTAACGTTCTGATGCT 20

RESULT 8
US-11-031-460-45

Sequence 45, Application US/11031460
Publication No. US20050277609A1
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Klimman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT FILING DATE: US/11/031,460

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; CURRENT FILING DATE: 2005-01-07
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-45

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATACGTTCTCTGATGCT 20
DB 1 TCCATACGTTCTCTGATGCT 20

RESULT 9
US-11-067-587-3
; Sequence 3, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-3

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATACGTTCTCTGATGCT 20
DB 1 TCCATACGTTCTCTGATGCT 20

RESULT 10
US-11-067-587-45
; Sequence 45, Application US/11067587
; Publication No. US20060003955A1
; GENERAL INFORMATION:
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; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/067,587
; CURRENT FILING DATE: 2005-02-25
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-45

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATACGTTCTCTGATGCT 20
DB 1 TCCATACGTTCTCTGATGCT 20

RESULT 11
US-11-099-683-65
; Sequence 65, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur
; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037,70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 65
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-65

Query Match          100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATACGTTCTCTGATGCT 20
DB 1 TCCATACGTTCTCTGATGCT 20

RESULT 12
US-11-099-683-66
; Sequence 66, Application US/11099683
; Publication No. US20060019916A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur
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; APPLICANT: Vollmer, Jorg
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR INDUCING IL-10 RESPONSES
; FILE REFERENCE: C1037.70047US01
; CURRENT APPLICATION NUMBER: US/11/099,683
; CURRENT FILING DATE: 2005-04-04
; PRIOR APPLICATION NUMBER: US 60/558,951
; PRIOR FILING DATE: 2004-04-02
; NUMBER OF SEQ ID NOS: 143
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO: 66
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-099-683-66

Query Match      100.0%; Score 20; DB 12; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.27;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1 TCCTAACGTTCTGATGCT 20
Db      1 TCCTAACGTTCTGATGCT 20

RESULT 13
US-10-497-591A-100
; Sequence 100, Application US/10497591A
; Publication No. US20050250716A1
; GENERAL INFORMATION:
; APPLICANT: SCHMIDT, WALTER
; APPLICANT: SCHELLACK, CAROLA
; APPLICANT: EGYED, ALENA
; APPLICANT: LINGNAU, KAREN
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
; FILE REFERENCE: SONN:045US
; CURRENT APPLICATION NUMBER: US/10/497,591A
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 100
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primer
; NAME/KEY: modified_base
; LOCATION: (9)
; OTHER INFORMATION: n = inosine or uracil
US-10-497-591A-100

Query Match      95.0%; Score 19; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 0.96;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TCCTAACGTTCTGATGCT 20
Db      1 TCCTAACGTTCTGATGCT 20

RESULT 14
US-10-497-591A-12
; Sequence 12, Application US/10497591A
; Publication No. US20050250716A1
; GENERAL INFORMATION:
; APPLICANT: SCHMIDT, WALTER
```

```

; APPLICANT: SCHELLACK, CAROLA
; APPLICANT: EGYED, ALENA
; APPLICANT: LINGNAU, KAREN
; TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGODEOXYNUCLEOTIDES
; FILE REFERENCE: SONN:045US
; CURRENT APPLICATION NUMBER: US/10/497,591A
; CURRENT FILING DATE: 2004-06-03
; PRIOR APPLICATION NUMBER: PCT/EP02/13791
; PRIOR FILING DATE: 2002-12-05
; PRIOR APPLICATION NUMBER: A 1924/2001
; PRIOR FILING DATE: 2001-12-07
; NUMBER OF SEQ ID NOS: 113
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO: 12
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: Primer
US-10-497-591A-12

Query Match      92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TCCTAACGTTCTGATGCT 20
Db      1 TCCTAACGTTCTGATGCT 20

RESULT 15
US-10-469-561-9
; Sequence 9, Application US/10469561
; Publication No. US20050260216A1
; GENERAL INFORMATION:
; APPLICANT: Claire Ashman
; APPLICANT: James Scott Crowe
; APPLICANT: Jonathan Henry Ellis
; APPLICANT: Alan Peter Lewis
; TITLE OF INVENTION: VACCINE
; FILE REFERENCE: PG435USW
; CURRENT APPLICATION NUMBER: US/10/469,561
; CURRENT FILING DATE: 2003-08-29
; NUMBER OF SEQ ID NOS: 25
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 9
; LENGTH: 20
; TYPE: DNA
; ORGANISM: unknown
; FEATURE:
; OTHER INFORMATION: synthetic immunostimulatory oligonucleotide
US-10-469-561-9

Query Match      92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TCCTAACGTTCTGATGCT 20
Db      1 TCCTAACGTTCTGATGCT 20

RESULT 16
US-10-619-279-7
; Sequence 7, Application US/10619279
; Publication No. US20050267057A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7023/HCL
; CURRENT APPLICATION NUMBER: US/10/619,279
; CURRENT FILING DATE: 2003-07-14
```

```

; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-619-279-7
```

```

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGCTTCCTGATGCT 20
         |||||
Db      1  TCCATGACGCTTCCTGATGCT 20
```

```

RESULT 17
US-10-435-656-7
; Sequence 7, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-7
```

```

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGCTTCCTGATGCT 20
         |||||
Db      1  TCCATGACGCTTCCTGATGCT 20
```

```

RESULT 18
US-10-435-656-35
; Sequence 35, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
```

```

; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 35
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-35
```

```

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGCTTCCTGATGCT 20
         |||||
Db      1  TCCATGACGCTTCCTGATGCT 20
```

```

RESULT 19
US-10-435-656-44
; Sequence 44, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-44
```

```

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGCTTCCTGATGCT 20
         |||||
Db      1  TCCATGACGCTTCCTGATGCT 20
```

```

RESULT 20
US-10-435-656-54
; Sequence 54, Application US/10435656
; Publication No. US20050277604A1
; GENERAL INFORMATION:
```

```

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-54

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCATACGCTTCCTGATGCT 20
Db 1 TCATGACGCTTCCTGATGCT 20

RESULT 21
US-11-127-797-25
; Sequence 25, Application US/11/27797
; Publication No. US20050245477A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/127,797
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-797-25

Query Match          92.0%; Score 18.4; DB 10; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCATACGCTTCCTGATGCT 20
Db 1 TCATGACGCTTCCTGATGCT 20

RESULT 22
US-11-127-803-25
; Sequence 25, Application US/11/27803
; Publication No. US20050244379A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/10/435,656
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 54
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-435-656-54

Query Match          92.0%; Score 18.4; DB 8; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCATACGCTTCCTGATGCT 20
Db 1 TCATGACGCTTCCTGATGCT 20

RESULT 23
US-11-128-127-25
; Sequence 25, Application US/11/28127
; Publication No. US20050244380A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; FILE REFERENCE: C1039/7029
; CURRENT APPLICATION NUMBER: US/11/128,127
; CURRENT FILING DATE: 2005-05-11
; PRIOR APPLICATION NUMBER: US/10/690,495
; PRIOR FILING DATE: 2003-10-21
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 27
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 25
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-128-127-25

Query Match          92.0%; Score 18.4; DB 10; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCATACGCTTCCTGATGCT 20
Db 1 TCATGACGCTTCCTGATGCT 20

RESULT 24
US-11-025-858-2
; Sequence 2, Application US/11/025858
; Publication No. US20050250723A1
; GENERAL INFORMATION:
; APPLICANT: Hoerr, Ingmar
; APPLICANT: Von Der Walbe, Florian
; APPLICANT: Pascolo, Steve
```

```

; TITLE OF INVENTION: Immunostimulation by chemically modified RNA
; FILE REFERENCE: Curevac GmbH (2793-1-002)
; CURRENT APPLICATION NUMBER: US/11/025,858
; CURRENT FILING DATE: 2004-12-28
; PRIOR APPLICATION NUMBER: PCT/EP2003/007175
; PRIOR FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: DE 10229872.6
; PRIOR FILING DATE: 2002-07-03
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 2
; LENGTH: 20
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide, Cpg RNA 1668
US-11-025-858-2
```

```

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 60.0%; Pred. No. 2;
Matches 12; Conservative 7; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGTTCTCTGATGCT 20
      |||:||||:||||:|
Db      1  UCCAUGACGUCUCCUGAUGCU 20
```

```

RESULT 25
US-11-025-858-6
; Sequence 6, Application US/11025858
; Publication No. US20050250723A1
; GENERAL INFORMATION:
; APPLICANT: Hoeft, Ingmar
; APPLICANT: Von Der Mulbe, Florian
; APPLICANT: Pascolo, Steve
; TITLE OF INVENTION: Immunostimulation by chemically modified RNA
; FILE REFERENCE: Curevac GmbH (2793-1-002)
; CURRENT APPLICATION NUMBER: US/11/025,858
; CURRENT FILING DATE: 2004-12-28
; PRIOR APPLICATION NUMBER: PCT/EP2003/007175
; PRIOR FILING DATE: 2003-07-03
; PRIOR APPLICATION NUMBER: DE 10229872.6
; PRIOR FILING DATE: 2002-07-03
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin version 3.3
; SEQ ID NO 6
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide, Cpg DNA 1668
US-11-025-858-6
```

```

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGTTCTCTGATGCT 20
      |||:||||:||||:|
Db      1  TCCATGACGTTCTCTGATGCT 20
```

```

RESULT 26
US-11-127-654-10
; Sequence 10, Application US/1127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.7060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
```

```

; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 10
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (8)..(8)
; OTHER INFORMATION: msc
US-11-127-654-10
```

```

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGTTCTCTGATGCT 20
      |||:||||:||||:|
Db      1  TCCATGACGTTCTCTGATGCT 20
```

```

RESULT 27
US-11-127-654-11
; Sequence 11, Application US/1127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.7060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: Patentin version 3.2
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
; NAME/KEY: modified_base
; LOCATION: (13)..(13)
; OTHER INFORMATION: msc
US-11-127-654-11
```

```

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGTTCTCTGATGCT 20
      |||:||||:||||:|
Db      1  TCCATGACGTTCTCTGATGCT 20
```

```

RESULT 28
US-11-127-654-731
; Sequence 731, Application US/1127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
```



```

; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 731
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-731

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 29
US-11-127-654-779
; Sequence 779, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 779
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-779

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 30
US-11-127-654-836
; Sequence 836, Application US/11127654
; Publication No. US20050250726A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR TREATMENT OF NON-ALLERGIC
; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 836
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-836

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 31
US-11-134-918-7
; Sequence 7, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kline, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-7

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 32
US-11-134-918-35
; Sequence 35, Application US/11134918
```

```

; FILE REFERENCE: C1039.70060US01
; CURRENT APPLICATION NUMBER: US/11/127,654
; CURRENT FILING DATE: 2005-05-12
; PRIOR APPLICATION NUMBER: US 10/112,653
; PRIOR FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 836
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-127-654-836

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 31
US-11-134-918-7
; Sequence 7, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kline, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 7
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-7

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 32
US-11-134-918-35
; Sequence 35, Application US/11134918
```

```

Publication NO. US20050267064A1
GENERAL INFORMATION:
APPLICANT: Kries, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kline, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic
FILE REFERENCE: C1039/7048 (AWS)
CURRENT APPLICATION NUMBER: US/11/134,918
CURRENT FILING DATE: 2005-05-23
PRIOR APPLICATION NUMBER: US/09/818,918
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: PatSeq for Windows Version 3.0
SEQ ID NO 35
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-35

```

Query Match	92.0%	Score 18.4;	DB 12;	Length 20;
Best Local Similarity	95.0%;	Pred. No. 2;		
Matches 19; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

```

Qy      1  TCCATAACGTTCTCTGATGCT  20
        |||||
Db      1  TCCATGACGTTCTCTGATGCT  20

```

```

RESULT 33
US-11-134-918-44
; Sequence 44, Application US/11134918
; Publication No. US20050267064A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Kliman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AWS)
; CURRENT APPLICATION NUMBER: US/11/134,918
; CURRENT FILING DATE: 2005-05-23
; PRIOR APPLICATION NUMBER: US/09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-44

```

Query Match	92.0%	Score 18.4;	DB 12;	Length 20;
Best Local Similarity	95.0%	Pred. No. 2;		
Matches 19;	Conservative	0;	Mismatches 1;	Indels 0;
				Gaps 0;

QY 1 TCCATAACGTTCCCTGATGCT 20

Db 1 TCCATGACGTTCTGATGCT 20

```

RESULT 34
US-11-134-918-54
Sequence 54, Application US/11134918
Publication NO. US20050267064A1
GENERAL INFORMATION:
APPLICANT: Kriegel, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Klinman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/11/134,918
CURRENT FILING DATE: 2005-05-23
PRIORITY APPLICATION NUMBER: US/09/818,918
PRIORITY FILING DATE: 2001-03-27
PRIORITY APPLICATION NUMBER: US 08/276,358
PRIORITY FILING DATE: 1994-07-15
PRIORITY APPLICATION NUMBER: US 08/386,063
PRIORITY FILING DATE: 1995-02-07
PRIORITY APPLICATION NUMBER: US 08/738,652
PRIORITY FILING DATE: 1996-10-30
NUMBER OF SEQ. ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 54
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-134-918-54

```

Query Match	92.0%;	Score 18.4;	DB 12;	Length 20;
Best Local Similarity	95.0%;	Pred. No. 2;		
Matches 19; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0

Qy 1 TCCATAACGTTCCCTGATGCT 20
|||
Db 1 TCCATGACGTTCCCTGATGCT 20

```

RESULT 35
US-11-031-460-7
Sequence 7, Application US/11031460
Publication No. US20050277609A1
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kilman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/11/031,460
CURRENT FILING DATE: 2005-01-07
PRIOR APPLICATION NUMBER: US/09/818,918
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 7
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide

```

OTHER INFORMATION: Synthetic oligonucleotide

US-11-031-460-7

Query Match	92.0%	Score 18.4;	DB 12;	Length 20;	.
Best Local Similarity	95.0%	Pred. No. 2;			.
Matches 19; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0	

Oy		1	TCCATAACGTTCTTGATGCT	20
D6		1	TTCATGACGTTCTTGTATGCT	20

RESULT 36
US-11-031

```

US-11-031-460-35
Sequence 35, Application US/11/031460
Publication No. US20050277609A1
GENERAL INFORMATION:
APPLICANT: Kries, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C10397/7048 (AWS)
CURRENT APPLICATION NUMBER: US/11/031,460
PRIOR FILING DATE: 2005-01-07
PRIOR APPLICATION NUMBER: US/09/818,918
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386,063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/758,652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FaetsEQ for Windows Version 3.0
SEQ ID NO 35
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-35

```

Query Match	92.0%	Score 18.4;	DB 12;	Length 20;
Best Local Similarity	95.0%	Pred. No. 2;		
Matches 19; Conservative	0;	Mismatches 1;	Indels 0;	Gaps 0;

```

QY      1  TCATACGTTCCGTATGCT  20
          |||||
Db      1  TCATGACGTTCCGTATGCT  20

```

RESULT 37
US-11-031.

US-11-031-460-44
Sequence 44, Application US/11031460
Publication No. US20050277609A1
GENERAL INFORMATION:
APPLICANT: Kries, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kline, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunorecognition Nucleic Acid Molecules
FILE REFERENCE: C10397/048 (ANS)
CURRENT APPLICATION NUMBER: US/11/031,460
CURRENT FILING DATE: 2005-01-07
PRIORITY APPLICATION NUMBER: US/09/818,918
PRIORITY FILING DATE: 2001-03-27
PRIORITY APPLICATION NUMBER: US 08/276,358
PRIORITY FILING DATE: 1994-07-15
PRIORITY APPLICATION NUMBER: US 08/386,063
PRIORITY FILING DATE: 1995-02-07
PRIORITY APPLICATION NUMBER: US 08/738,652
PRIORITY FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56

```

; SOFTWARE: FastSeq for Windows Version 3.0

```

```

; SEQ ID NO 44
; LENGTH: 20

```

```

; TYPE: DNA
; ORGANISM: Artificial Sequence

```

OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-44

Query Match	92.0%	Score 18.4;	DB 12;	Length 20;
Best Local Similarity	95.0%	Pred. No. 2;		
Matches 19;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0

Oy		1	TCCATAACGTTCTGTATGCT	20
D6		1	TCCATGACGTTCTTGATGCT	20

RESULT 38
US-11-031

```

US-11-031-460-54
Sequence 54, Application US/11031460
Publication No. US20050277609A1
GENERAL INFORMATION:
APPLICANT: Kriegl, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AMS)
CURRENT APPLICATION NUMBER: US/11/031,460
CURRENT FILING DATE: 2005-01-07
PRIORITY APPLICATION NUMBER: US/09/918,918
PRIORITY FILING DATE: 2001-03-27
PRIORITY APPLICATION NUMBER: US 08/276,358
PRIORITY FILING DATE: 1994-07-15
PRIORITY APPLICATION NUMBER: US 08/386,063
PRIORITY FILING DATE: 1995-02-07
PRIORITY APPLICATION NUMBER: US 08/738,652
PRIORITY FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 54
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURES:
OTHER INFORMATION: Synthetic oligonucleotide
US-11-031-460-54

```

Query Match	92.0%	Score 18.4;	DB 12;	Length 20;
Best Local Similarity	95.0%	Pred. No. 2;		
Matches 19;	Conservative 0;	Mismatches 1;	Indels 0;	Gaps 0;

```

Qy      1  TCATACGTTCCGTATGCT  20
          |||||
Db      1  TCATGACGTTCCGTATGCT  20

```

RESULT 39
US-11-067

```

Sequence 7, Application US/11067587
Publication No. US20060003955A1
GENERAL INFORMATION:
APPLICANT: Kriegl, Joel M.
APPLICANT: Kriegl, Arthur N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AWS)
CURRENT APPLICATION NUMBER: US/11/067,587
CURRENT FILING DATE: 2005-02-25
PRIORITY APPLICATION NUMBER: US/09/818,918
PRIOR FILING DATE: 2001-03-27

```

```
/ PRIOR APPLICATION NUMBER: US 08/276,358
/ PRIOR FILING DATE: 1994-07-15
/ PRIOR APPLICATION NUMBER: US 08/386,063
/ PRIOR FILING DATE: 1995-02-07
/ PRIOR APPLICATION NUMBER: US 08/738,652
/ PRIOR FILING DATE: 1996-10-30
/ NUMBER OF SEQ ID NOS: 56
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO: 7
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-7

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TCCATACGTTCTCTGATGCT 20
        ||||| ||||| |||||
Db       1 TCCATGACGTTCTCTGATGCT 20

RESULT 40
US-11-067-587-35
/ Sequence 35, Application US/11067587
/ Publication No. US20060003955A1
/ GENERAL INFORMATION:
/ APPLICANT: Klieg, Arthur M.
/ APPLICANT: Kline, Joel N.
/ APPLICANT: Kliman, Dennis
/ APPLICANT: Steinberg, Alfred D.
/ TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
/ FILE REFERENCE: C1039/7048 (AMS)
/ CURRENT APPLICATION NUMBER: US/11/067,587
/ CURRENT FILING DATE: 2005-02-25
/ PRIOR APPLICATION NUMBER: US/09/818,918
/ PRIOR FILING DATE: 2001-03-27
/ PRIOR APPLICATION NUMBER: US 08/276,358
/ PRIOR FILING DATE: 1994-07-15
/ PRIOR APPLICATION NUMBER: US 08/386,063
/ PRIOR FILING DATE: 1995-02-07
/ PRIOR APPLICATION NUMBER: US 08/738,652
/ PRIOR FILING DATE: 1996-10-30
/ NUMBER OF SEQ ID NOS: 56
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO: 35
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:
/ OTHER INFORMATION: Synthetic oligonucleotide
US-11-067-587-35

Query Match          92.0%; Score 18.4; DB 12; Length 20;
Best Local Similarity 95.0%; Pred. No. 2;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1 TCCATACGTTCTCTGATGCT 20
        ||||| ||||| |||||
Db       1 TCCATGACGTTCTCTGATGCT 20
```

Search completed: March 8, 2006, 21:10:37
Job time : 308.113 secs

GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 19:48:19 ; Search time 419.057 Seconds
(without alignments)
394.666 Million cell updates/sec

Title: US-09-337-584-3

Perfect score: 20
Sequence: 1 tccataacgttcctgatgct 20

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 9793542 seqs, 4134689005 residues

Total number of hits satisfying chosen parameters: 19587084

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 100 summaries

Database : Published Applications NA Main:

1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/US08_PUBCOMB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US09A_PUBCOMB.seq:*
4: /cgn2_6/ptodata/1/pubpna/US09B_PUBCOMB.seq:*
5: /cgn2_6/ptodata/1/pubpna/US10A_PUBCOMB.seq:*
6: /cgn2_6/ptodata/1/pubpna/US10B_PUBCOMB.seq:*
7: /cgn2_6/ptodata/1/pubpna/US10C_PUBCOMB.seq:*
8: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
9: /cgn2_6/ptodata/1/pubpna/US10E_PUBCOMB.seq:*
10: /cgn2_6/ptodata/1/pubpna/US11_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	20	100.0	20	US-09-824-468-49	Sequence 49, Appl
2	20	100.0	20	US-09-800-266A-43	Sequence 43, Appl
3	20	100.0	20	US-09-895-007A-43	Sequence 43, Appl
4	20	100.0	20	US-09-920-313-43	Sequence 43, Appl
5	20	100.0	20	US-09-888-326-545	Sequence 545, App
6	20	100.0	20	US-09-818-918-3	Sequence 3, Appl
7	20	100.0	20	US-09-818-918-45	Sequence 45, Appl
8	20	100.0	20	US-09-931-583-42	Sequence 42, Appl
9	20	100.0	20	US-09-776-479-777	Sequence 777, App
10	20	100.0	20	US-09-954-987B-77	Sequence 77, Appl
11	20	100.0	20	US-09-874-991C-44	Sequence 44, Appl
12	20	100.0	20	US-09-874-991C-110	Sequence 110, App
13	20	100.0	20	US-09-874-991C-133	Sequence 133, App
14	20	100.0	20	US-09-874-991C-161	Sequence 161, App
15	20	100.0	20	US-09-874-991C-182	Sequence 182, App
16	20	100.0	20	US-09-874-991C-207	Sequence 207, App
17	20	100.0	20	US-09-776-479-777	Sequence 777, App
18	20	100.0	20	US-10-023-908A-43	Sequence 43, Appl
19	20	100.0	20	US-10-112-653-750	Sequence 750, App
20	20	100.0	20	US-10-017-995-777	Sequence 777, App
21	20	100.0	20	US-10-300-247-43	Sequence 43, Appl
22	20	100.0	20	US-10-161-229-44	Sequence 44, Appl
23	20	100.0	20	US-10-187-264A-3	Sequence 3, Appl

24	20	100.0	20	US-10-265-072-78	Sequence 78, Appl
25	20	100.0	20	US-10-306-522-3	Sequence 3, Appl
26	20	100.0	20	US-10-314-578-777	Sequence 777, App
27	20	100.0	20	US-10-434-696-43	Sequence 43, Appl
28	20	100.0	20	US-10-373-381-36	Sequence 36, Appl
29	20	100.0	20	US-10-719-493-3	Sequence 3, Appl
30	20	100.0	20	US-10-627-331-3	Sequence 3, Appl
31	20	100.0	20	US-10-666-733-43	Sequence 43, Appl
32	20	100.0	20	US-10-743-625-45	Sequence 45, Appl
33	20	100.0	20	US-10-679-710-3	Sequence 3, Appl
34	20	100.0	20	US-10-679-710-45	Sequence 45, Appl
35	20	100.0	20	US-10-769-282-3	Sequence 3, Appl
36	20	100.0	20	US-10-769-282-45	Sequence 45, Appl
37	20	100.0	20	US-10-817-165-3	Sequence 3, Appl
38	20	100.0	20	US-10-817-165-45	Sequence 45, Appl
39	20	100.0	20	US-10-877-407-33	Sequence 33, Appl
40	20	100.0	20	US-10-877-359-36	Sequence 36, Appl
41	20	100.0	20	US-10-816-220-43	Sequence 43, Appl
42	20	100.0	20	US-10-831-778-777	Sequence 777, App
43	20	100.0	20	US-10-876-892-36	Sequence 36, Appl
44	20	100.0	20	US-10-876-965-36	Sequence 36, Appl
45	20	100.0	20	US-10-888-886-43	Sequence 43, Appl
46	20	100.0	20	US-10-847-642-3	Sequence 3, Appl
47	20	100.0	20	US-10-847-642-45	Sequence 45, Appl
48	20	100.0	20	US-10-888-785-3	Sequence 3, Appl
49	20	100.0	20	US-10-888-785-45	Sequence 45, Appl
50	20	100.0	20	US-10-649-584-42	Sequence 42, Appl
51	20	100.0	20	US-10-831-775-43	Sequence 43, Appl
52	20	100.0	20	US-10-888-444-3	Sequence 3, Appl
53	20	100.0	20	US-10-888-444-45	Sequence 45, Appl
54	20	100.0	20	US-10-894-663-33	Sequence 33, Appl
55	20	100.0	20	US-10-894-663-45	Sequence 45, Appl
56	20	100.0	20	US-10-884-852-3	Sequence 3, Appl
57	20	100.0	20	US-10-884-852-45	Sequence 45, Appl
58	20	100.0	20	US-10-613-916-3	Sequence 3, Appl
59	20	100.0	20	US-10-613-916-45	Sequence 45, Appl
60	20	100.0	20	US-10-921-086-3	Sequence 3, Appl
61	20	100.0	20	US-10-921-086-45	Sequence 45, Appl
62	20	100.0	20	US-10-928-762-3	Sequence 3, Appl
63	20	100.0	20	US-10-928-762-45	Sequence 45, Appl
64	20	100.0	20	US-10-987-146-3	Sequence 3, Appl
65	20	100.0	20	US-10-987-146-45	Sequence 45, Appl
66	20	100.0	20	US-10-972-301-33	Sequence 33, Appl
67	20	100.0	20	US-10-972-301-43	Sequence 43, Appl
68	20	100.0	20	US-10-956-494-45	Sequence 45, Appl
69	20	100.0	20	US-10-956-494-3	Sequence 3, Appl
70	20	100.0	20	US-10-956-745-45	Sequence 45, Appl
71	20	100.0	20	US-11-056-653-77	Sequence 77, Appl
72	20	100.0	20	US-11-056-653-45	Sequence 45, Appl
73	20	100.0	20	US-11-084-527-77	Sequence 77, Appl
74	20	100.0	20	US-11-071-636-3	Sequence 3, Appl
75	20	100.0	20	US-11-110-189-49	Sequence 49, Appl
76	20	100.0	20	US-09-874-991C-228	Sequence 228, App
77	20	100.0	20	US-09-874-991C-51	Sequence 51, App
78	20	100.0	20	US-09-874-991C-249	Sequence 249, App
79	20	100.0	20	US-10-415-504-18	Sequence 18, Appl
80	20	100.0	20	US-10-365-678-8	Sequence 8, Appl
81	20	100.0	20	US-09-791-500-7	Sequence 7, Appl
82	20	100.0	20	US-09-824-468-24	Sequence 24, Appl
83	20	100.0	20	US-09-800-266A-19	Sequence 19, Appl
84	20	100.0	20	US-09-846-091-4	Sequence 4, Appl
85	20	100.0	20	US-09-895-007A-19	Sequence 19, Appl
86	20	100.0	20	US-09-920-313-19	Sequence 19, Appl
87	20	100.0	20	US-09-415-142-25	Sequence 25, Appl
88	20	100.0	20	US-09-888-336-127	Sequence 127, App
89	20	100.0	20	US-09-888-336-565	Sequence 565, App
90	20	100.0	20	US-09-888-336-567	Sequence 567, App
91	20	100.0	20	US-09-818-918-7	Sequence 7, Appl
92	20	100.0	20		
93	20	100.0	20		
94	20	100.0	20		
95	20	100.0	20		
96	20	100.0	20		

97	18.4	92.0	20	3	US-09-818-918-35	Sequence 35, Appl
98	18.4	92.0	20	3	US-09-818-918-44	Sequence 44, Appl
99	18.4	92.0	20	3	US-09-818-918-54	Sequence 54, Appl
100	18.4	92.0	20	3	US-09-931-583-25	Sequence 25, Appl

ALIGNMENTS

RESULT 1
US-09-824-468-49
Sequence 49, Application US/09824468
Patent No. US20020064515A1
GENERAL INFORMATION:
APPLICANT: Krieger, Arthur M.
APPLICANT: Weiner, George
TITLE OF INVENTION: Methods and Products for Stimulating the
TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
FILE REFERENCE: C1039/7026/HCL
CURRENT APPLICATION NUMBER: US/09/824,468
CURRENT FILING DATE: 2001-04-02
PRIOR APPLICATION NUMBER: 09/286,098
PRIOR FILING DATE: 1999-04-02
NUMBER OF SEQ ID NOS: 105
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 49
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-824-468-49

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTGATGCT 20
Db 1 TCCATAACGTTCTGATGCT 20

RESULT 2
US-09-800-266A-43
Sequence 43, Application US/09800266A
Patent No. US20020156033A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids and
TITLE OF INVENTION: Cancer Medicament Combination Therapy for the Treatment of
FILE REFERENCE: C1037/7017(HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/800,266A
CURRENT FILING DATE: 2001-03-05
PRIOR APPLICATION NUMBER: US 60/187,214
PRIOR FILING DATE: 2000-03-03
NUMBER OF SEQ ID NOS: 146
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 43
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-800-266A-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTGATGCT 20

Db 1 TCCATAACGTTCTGATGCT 20

RESULT 3
US-09-895-007A-43
Sequence 43, Application US/09895007A
Patent No. US20020165178A1
GENERAL INFORMATION:
APPLICANT: Schettler, Christian
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACIDS FOR THE
FILE REFERENCE: C1041/7014 (AMS)
CURRENT APPLICATION NUMBER: US/09/895,007A
CURRENT FILING DATE: 2001-06-28
PRIOR APPLICATION NUMBER: US 60/214,368
PRIOR FILING DATE: 2000-06-28
NUMBER OF SEQ ID NOS: 133
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 43
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-09-895-007A-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTGATGCT 20
Db 1 TCCATAACGTTCTGATGCT 20

RESULT 4
US-09-920-313-43
Sequence 43, Application US/09920313
Publication No. US20020198165A1
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Nucleic Acids for the Prevention and
TITLE OF INVENTION: Treatment of Gastric Ulcers
FILE REFERENCE: C1037/7019 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/920,313
CURRENT FILING DATE: 2001-08-01
PRIOR APPLICATION NUMBER: US 60/222,248
PRIOR FILING DATE: 2001-08-08
NUMBER OF SEQ ID NOS: 148
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 43
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Sequence
US-09-920-313-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATAACGTTCTGATGCT 20
Db 1 TCCATAACGTTCTGATGCT 20

RESULT 5
US-09-888-326-545

```

; Sequence 545, Application US/09888326
; Publication No. US20030026801A1
; GENERAL INFORMATION:
; APPLICANT: Weiner, George
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Methods for Enhancing Antibody-Induced
; FILE REFERENCE: C1039/7052 (AMS)
; CURRENT APPLICATION NUMBER: US/09/888,326
; CURRENT FILING DATE: 2001-06-22
; PRIOR APPLICATION NUMBER: US 60/213,346
; PRIOR FILING DATE: 2000-06-22
; NUMBER OF SEQ ID NOS: 848
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 545
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (0)..(0)
; OTHER INFORMATION: phosphodiester backbone
US-09-888-326-545

```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY
1 TCCATAACGTTCTCGATGCT 20
Db
1 TCCATAACGTTCTCGATGCT 20

```

```

RESULT 6
US-09-818-918-3
; Sequence 3, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-3

```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY
1 TCCATAACGTTCTCGATGCT 20
Db
1 TCCATAACGTTCTCGATGCT 20

```

RESULT 7

```

US-09-818-918-45
; Sequence 45, Application US/09818918
; Publication No. US20030050261A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/09/818,918
; CURRENT FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-818-918-45

```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY
1 TCCATAACGTTCTCGATGCT 20
Db
1 TCCATAACGTTCTCGATGCT 20

```

```

RESULT 8
US-09-931-583-42
; Sequence 42, Application US/09931583
; Publication No. US20030050263A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred
; TITLE OF INVENTION: Methods and Products for Treating HIV Infection
; FILE REFERENCE: C1039/7053 (HCL)
; CURRENT APPLICATION NUMBER: US/09/931,583
; CURRENT FILING DATE: 2001-08-16
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 09/415,142
; PRIOR FILING DATE: 1999-10-09
; NUMBER OF SEQ ID NOS: 75
; SOFTWARE: PatentIn Version 3.0
; SEQ ID NO 42
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; NAME/KEY: misc_feature
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-931-583-42

```

```

Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY
1 TCCATAACGTTCTCGATGCT 20
Db
1 TCCATAACGTTCTCGATGCT 20

```

```
RESULT 9
US-09-776-479-777
; Sequence 777, Application US/09776479
; Publication No. US20030087848A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
; APPLICANT: Fouton, Yves
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
; FILE REFERENCE: C1037/7013 (HCL/MAT)
; CURRENT FILING DATE: US/09/776,479
; PRIOR FILING DATE: 2001-02-02
; PRIOR APPLICATION NUMBER: US 60/179,991
; PRIOR FILING DATE: 2000-02-03
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 777
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-777
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATAACGTTCTGATGCT 20
        |||
Db       1  TCCATAACGTTCTGATGCT 20
```

```
RESULT 10
US-09-954-987B-77
; Sequence 77, Application US/09954987B
; Publication No. US20030104523A1
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AMS)
; CURRENT FILING DATE: US/09/954,987B
; PRIOR FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 77
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-77
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATAACGTTCTGATGCT 20
        |||
Db       1  TCCATAACGTTCTGATGCT 20
```

```
RESULT 11
US-09-874-991C-44
; Sequence 44, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORA, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787,0042-0
; CURRENT FILING DATE: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR FILING DATE: 2000-06-07
; PRIOR APPLICATION NUMBER: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 44
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-44
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATAACGTTCTGATGCT 20
        |||
Db       1  TCCATAACGTTCTGATGCT 20
```

```
RESULT 12
US-09-874-991C-110
; Sequence 110, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
; APPLICANT: FLORIN, MICHAEL
; APPLICANT: KLINMAN, DENNIS M.
; TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
; FILE REFERENCE: 07787,0042-0
; CURRENT FILING DATE: US/09/874,991C
; CURRENT FILING DATE: 2001-06-07
; PRIOR FILING DATE: 60/209,797
; PRIOR FILING DATE: 2000-06-07
; NUMBER OF SEQ ID NOS: 620
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 110
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-110
```

```
Query Match          100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TCCATAACGTTCTGATGCT 20
        |||
Db       1  TCCATAACGTTCTGATGCT 20
```

```
RESULT 13
US-09-874-991C-133
; Sequence 133, Application US/09874991C
; Publication No. US20040052763A1
; GENERAL INFORMATION:
; APPLICANT: MOND, JAMES J.
```


APPLICANT: FLORA, MICHAEL
APPLICANT: KLIMMAN, DENNIS M.
TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
FILE REFERENCE: 07787.0042-0
CURRENT APPLICATION NUMBER: US/09/874,991C
CURRENT FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 60/209,797
PRIOR FILING DATE: 2000-06-07
NUMBER OF SEQ ID NOS: 620
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 133
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-133

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATTAACGTTCTCGATGCT 20
Db 1 TCCATTAACGTTCTCGATGCT 20

RESULT 14
US-09-874-991C-161
Sequence 161, Application US/09874991C
Publication No. US20040052763A1
GENERAL INFORMATION:
APPLICANT: MOND, JAMES J.
APPLICANT: FLORA, MICHAEL
APPLICANT: KLIMMAN, DENNIS M.
TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
FILE REFERENCE: 07787.0042-0
CURRENT APPLICATION NUMBER: US/09/874,991C
CURRENT FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 60/209,797
PRIOR FILING DATE: 2000-06-07
NUMBER OF SEQ ID NOS: 620
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 161
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-161

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATTAACGTTCTCGATGCT 20
Db 1 TCCATTAACGTTCTCGATGCT 20

RESULT 15
US-09-874-991C-182
Sequence 182, Application US/09874991C
Publication No. US20040052763A1
GENERAL INFORMATION:
APPLICANT: MOND, JAMES J.
APPLICANT: FLORA, MICHAEL
APPLICANT: KLIMMAN, DENNIS M.
TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
FILE REFERENCE: 07787.0042-0
CURRENT APPLICATION NUMBER: US/09/874,991C
CURRENT FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 60/209,797

PRIOR FILING DATE: 2000-06-07
NUMBER OF SEQ ID NOS: 620
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 182
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-182

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATTAACGTTCTCGATGCT 20
Db 1 TCCATTAACGTTCTCGATGCT 20

RESULT 16
US-09-874-991C-207
Sequence 207, Application US/09874991C
Publication No. US20040052763A1
GENERAL INFORMATION:
APPLICANT: MOND, JAMES J.
APPLICANT: FLORA, MICHAEL
APPLICANT: KLIMMAN, DENNIS M.
TITLE OF INVENTION: IMMUNOSTIMULATORY RNA/DNA HYBRID MOLECULES
FILE REFERENCE: 07787.0042-0
CURRENT APPLICATION NUMBER: US/09/874,991C
CURRENT FILING DATE: 2001-06-07
PRIOR APPLICATION NUMBER: 60/209,797
PRIOR FILING DATE: 2000-06-07
NUMBER OF SEQ ID NOS: 620
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 207
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Synthetic HDR
US-09-874-991C-207

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATTAACGTTCTCGATGCT 20
Db 1 TCCATTAACGTTCTCGATGCT 20

RESULT 17
US-09-776-479-777
Sequence 777, Application US/09776479
Publication No. US20040067902A9
GENERAL INFORMATION:
APPLICANT: Bratzler, Robert L.
APPLICANT: Petersen, Deanna M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acids for the
TREATMENT OF ASTHMA AND ALLERGY
FILE REFERENCE: C1037/77013 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/776,479
CURRENT FILING DATE: 2001-02-02
PRIOR APPLICATION NUMBER: US 60/119,991
PRIOR FILING DATE: 2000-02-03
NUMBER OF SEQ ID NOS: 1093
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 777
LENGTH: 20
TYPE: DNA

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-776-479-777

```

Query Match	100.0%;	Score 20;	DB 3;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 2.8;		
Matches	20;	Conservative	0;	Mismatches 0;
				Indels 0;
				Gaps 0;

```
OY      1 TCATACGTTCTGATGCT  20
        |||||
Db       1 TCCATAACGTTCTGTGCT  20
```

RESULT 18
US-10-023-909A-43
; Sequence 43, Application US/10023909A

```

1  TITLE OF INVENTION: Use of Nucleic Acids Containing
2  TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
3  FILE REFERENCE: C1039/77058/HCL
4  CURRENT APPLICATION NUMBER: US/10/023,909A
5  CURRENT FILING DATE: 2001-12-18
6  PRIOR APPLICATION NUMBER: US 09/325,193
7  PRIOR FILING DATE: 1999-06-03
8  PRIOR APPLICATION NUMBER: US 09/154,614
9  PRIOR FILING DATE: 1998-09-16
10 PRIOR APPLICATION NUMBER: PCT/US98/04703
11 PRIOR FILING DATE: 1998-03-10
12 PRIOR APPLICATION NUMBER: US 60/040,376
13 PRIOR FILING DATE: 1997-03-10
14 NUMBER OF SEQ ID NOS: 98
15 SOFTWARE: FastSeq for Windows Version 3.0
16 SEQ ID NO 43
17 LENGTH: 20
18 TYPE: DNA
19 ORGANISM: Artificial Sequence
20 FEATURE:
21 OTHER INFORMATION: Synthetic Oligonucleotide
22 US-10-023-909A-43

```

```

Query Match Similarity 100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 2,8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0

QY      1  TTCATACGTTCTGATGCT 20
        |||||
Db       1  TTCATACGTTCTGATGCT 20

```

```

RESULT 19
US-10-112-653-750
; Sequence 750. Application US/10112653
; Publication No. US20030050268A1
; GENERAL INFORMATION:
; APPLICANT: Kries, Arthur M.
; APPLICANT: Berg, Daniel J.
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID FOR
; TREATMENT OF NON-ALLERGIC INFLAMMATORY DISEASES
; FILE REFERENCE: C01039/70060(LAWS)
; CURRENT APPLICATION NUMBER: US/10/112,653
; CURRENT FILING DATE: 2002-03-29
; PRIOR APPLICATION NUMBER: US 60/279,642
; PRIOR FILING DATE: 2001-03-29
; NUMBER OF SEQ ID NOS: 1040
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 750
;
; LENGTH: 20
;
; TYPE: DNA
;

```

```

; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-112-653-750

```

Query Match	100.0%	Score 20;	DB 5;	Length 20;
Best Local Similarity	100.0%	Pred. No. 2.8;		
Matches 20;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

Qy 1 TCATAACGTTCCCTGATGCT 20
|||
Db 1 TCATAACGTTCCCTGATGCT 20

```

RESULT 20
US-10-017-995-777
; Sequence 777, Application US/10017995
; Publication No. US20030055014A1
; GENERAL INFORMATION:
; APPLICANT: Brateler, Robert L.
; TITLE OF INVENTION: Inhibition of Angiogenesis by Nucleic Acids
; FILE REFERENCE: C1037/7025 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/017,995
; CURRENT FILING DATE: 2001-12-18
; PRIOR APPLICATION NUMBER: US 60/255,534
; PRIOR FILING DATE: 2000-12-14
; NUMBER OF SEQ ID NOS: 1093
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 777
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-017-995-777

```

Query Match	100.0%;	Score 20;	DB 5;	Length 20;
Best Local Similarity	100.0%;	Pred. No. 2.8;		
Matches	20;	Conservative 0;	Mismatches 0;	Indels 0;
				Gaps 0;

QY	1	TCCATAACGTTCTTGATGCT	20
Db	1	TCCATAACGTTCTTGATGCT	20

```

/ RESULT 21
/ US-10-300-247-43
/ Sequence 43, Application us/10300247
/ Publication No. US20030091599A1
/ GENERAL INFORMATION:
/ APPLICANT: Davis, Heather L.
/ APPLICANT: Schorr, Joachim
/ APPLICANT: Krieg, Arthur M.
/ TITLE OF INVENTION: Use of Nucleic Acids Containing
/ TITLE OF INVENTION: Umethyalted Cpg Dinucleotide as an Adjuvant
/ FILE REFERENCE: C1039/7058/ICL
/ CURRENT APPLICATION NUMBER: US/10/300,247
/ CURRENT FILING DATE: 2002-11-20
/ PRIOR APPLICATION NUMBER: US 09/325,193
/ PRIOR FILING DATE: 1999-06-03
/ PRIOR APPLICATION NUMBER: US 09/154,614
/ PRIOR FILING DATE: 1998-09-16
/ PRIOR APPLICATION NUMBER: PCT/US98/04703
/ PRIOR FILING DATE: 1998-03-10
/ PRIOR APPLICATION NUMBER: US 60/040,376
/ PRIOR FILING DATE: 1997-03-10
/ NUMBER OF SEQ ID NOS: 98
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 43
/ LENGTH: 20
/ TYPE: DNA
/ ORGANISM: Artificial Sequence
/ FEATURE:

```

OTHER INFORMATION: Synthetic Oligonucleotide
US-10-300-247-43

Query Match 100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATPACGTTCTGATGCT 20
DB 1 TCCATPACGTTCTGATGCT 20

RESULT 22
US-10-161-229-44

Sequence 44, Application US/10161229
Publication No. US20030100527A1
GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules for
Activating Dendritic Cells

FILE REFERENCE: C01039/70061

CURRENT APPLICATION NUMBER: US/10/161,229

CURRENT FILING DATE: 2002-06-03

PRIOR APPLICATION NUMBER: US 09/191,170

PRIOR FILING DATE: 1998-11-13

PRIOR APPLICATION NUMBER: US 08/960,774

PRIOR FILING DATE: 1997-10-30

PRIOR APPLICATION NUMBER: US 08/738,652

PRIOR FILING DATE: 1996-10-30

PRIOR APPLICATION NUMBER: US 08/386,063

PRIOR FILING DATE: 1995-02-07

PRIOR APPLICATION NUMBER: US 08/276,358

PRIOR FILING DATE: 1994-07-15

NUMBER OF SEQ ID NOS: 99

SOFTWARE: PatentIn version 3.1

SEQ ID NO 44

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial Sequence

FEATURE:

OTHER INFORMATION: Synthetic Oligonucleotide

US-10-161-229-44

Query Match 100.0%; Score 20; DB 5; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATPACGTTCTGATGCT 20
DB 1 TCCATPACGTTCTGATGCT 20

RESULT 23
US-10-187-264A-3

Sequence 3, Application US/10187264A

Publication No. US20030162734A1

GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

APPLICANT: Klinman, Dennis

APPLICANT: Steinberg, Alfred D.

TITLE OF INVENTION: Methods for Treating and Preventing

FILE OF INVENTION: Infectious Disease

FILE REFERENCE: C01039.70062.US

CURRENT APPLICATION NUMBER: US/10/187,264A

CURRENT FILING DATE: 2002-06-28

PRIOR APPLICATION NUMBER: US 09/630,319

PRIOR FILING DATE: 2000-07-31

PRIOR APPLICATION NUMBER: US 08/960,774

PRIOR FILING DATE: 1997-10-30

PRIOR APPLICATION NUMBER: US 08/738,652

PRIOR FILING DATE: 1996-10-30

PRIOR APPLICATION NUMBER: US 08/386,063

PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/276,358
PRIOR FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 124
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3

QY 1 TCCATPACGTTCTGATGCT 20
DB 1 TCCATPACGTTCTGATGCT 20

RESULT 24
US-10-265-072-78

Sequence 78, Application US/10265072
Publication No. US20030166001A1
GENERAL INFORMATION:

APPLICANT: Lipford, Grayson

TITLE OF INVENTION: TOLL-LIKE RECEPTOR 3 SIGNALING AGONISTS AND ANTAGONISTS

FILE REFERENCE: C01041.70031.US

CURRENT APPLICATION NUMBER: US/10/265,072

CURRENT FILING DATE: 2002-10-05

NUMBER OF SEQ ID NOS: 117

SOFTWARE: PatentIn version 3.1

SEQ ID NO 78

LENGTH: 20

TYPE: DNA

ORGANISM: Artificial sequence

FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide

US-10-265-072-78

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATPACGTTCTGATGCT 20
DB 1 TCCATPACGTTCTGATGCT 20

RESULT 25
US-10-306-522-3

Sequence 3, Application US/10306522

Publication No. US20030191079A1

GENERAL INFORMATION:

APPLICANT: Krieg, Arthur M.

APPLICANT: Klinman, Dennis

APPLICANT: Steinberg, Alfred D.

TITLE OF INVENTION: Methods for Treating and Preventing

FILE OF INVENTION: Infectious Disease

FILE REFERENCE: C01039.70062.US

CURRENT APPLICATION NUMBER: US/10/306,522

CURRENT FILING DATE: 2002-11-27

PRIOR APPLICATION NUMBER: US 09/630,319

PRIOR FILING DATE: 2000-07-31

PRIOR APPLICATION NUMBER: US 08/960,774

PRIOR FILING DATE: 1997-10-30

PRIOR APPLICATION NUMBER: US 08/738,652

PRIOR FILING DATE: 1996-10-30

PRIOR APPLICATION NUMBER: US 08/386,063

PRIOR FILING DATE: 1995-02-07

PRIOR APPLICATION NUMBER: US 08/276,358

;; PRIOR FILING DATE: 1994-07-15
;; NUMBER OF SEQ ID NOS: 124
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 3
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-306-522-3

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATACGTTCTCTGATGCT 20
|||
Db 1 TCCATACGTTCTCTGATGCT 20

RESULT 26
US-10-314-578-777
; Sequence 777, Application US/10314578
; Publication No. US20030212026A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schelter, Christian
; APPLICANT: Volmer, Joerg
; TITLE OF INVENTION: Immunostimulatory Nucleic Acids
; FILE REFERENCE: C1039/7035 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/10/314,578
; CURRENT FILING DATE: 2002-12-09
; PRIOR APPLICATION NUMBER: US 60/156,113
; PRIOR FILING DATE: 1999-09-25
; PRIOR FILING DATE: 1999-09-27
; PRIOR FILING DATE: 1999-09-27
; PRIOR FILING DATE: 2000-08-23
; PRIOR FILING DATE: 2000-08-23
; NUMBER OF SEQ ID NOS: 1145
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 777
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-314-578-777

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATACGTTCTCTGATGCT 20
|||
Db 1 TCCATACGTTCTCTGATGCT 20

RESULT 27
US-10-434-696-43
; Sequence 43, Application US/10434696
; Publication No. US20030224010A1
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; TITLE OF INVENTION: Unmethylated CpG Dinucleotide as an Adjuvant
; FILE REFERENCE: C1039/7058/HCL
; CURRENT APPLICATION NUMBER: US/10/434,696
; CURRENT FILING DATE: 2003-05-09
; PRIOR APPLICATION NUMBER: US 09/325,193
; PRIOR FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614

;; PRIOR FILING DATE: 1998-09-16
;; PRIOR APPLICATION NUMBER: PCT/US98/04703
;; PRIOR FILING DATE: 1998-03-10
;; PRIOR APPLICATION NUMBER: US 60/040,376
;; PRIOR FILING DATE: 1997-03-10
;; NUMBER OF SEQ ID NOS: 98
;; SOFTWARE: FastSeq for Windows Version 3.0
;; SEQ ID NO 43
;; LENGTH: 20
;; TYPE: DNA
;; ORGANISM: Artificial Sequence
;; FEATURE:
;; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-434-696-43

Query Match 100.0%; Score 20; DB 6; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATACGTTCTCTGATGCT 20
|||
Db 1 TCCATACGTTCTCTGATGCT 20

RESULT 28
US-10-373-381-36
; Sequence 36, Application US/10373381
; Publication No. US20040030118A1
; GENERAL INFORMATION:
; APPLICANT: Wagner, Hermann
; APPLICANT: Lipford, Grayson
; TITLE OF INVENTION: Methods for Regulating Hematopoiesis
; FILE REFERENCE: C01041.70035; US
; CURRENT APPLICATION NUMBER: US/10/373,381
; CURRENT FILING DATE: 2003-02-24
; PRIOR APPLICATION NUMBER: US 09/241,653
; PRIOR FILING DATE: 1999-02-02
; PRIOR FILING DATE: 1998-05-14
; PRIOR FILING DATE: 1998-05-14
; PRIOR FILING DATE: 1998-05-14
; NUMBER OF SEQ ID NOS: 90
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 36
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-373-381-36

Query Match 100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATACGTTCTCTGATGCT 20
|||
Db 1 TCCATACGTTCTCTGATGCT 20

RESULT 29
US-10-719-493-3
; Sequence 3, Application US/10719493
; Publication No. US20040087538A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Methods of Treating Cancer Using
; TITLE OF INVENTION: Immunostimulatory Oligonucleotides
; FILE REFERENCE: C1039/7021/HCL
; CURRENT APPLICATION NUMBER: US/10/719,493
; CURRENT FILING DATE: 2003-11-21
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652

```

; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-719-493-3
```

```

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATACGTTCTGATGCT 20
Db      1  TCCATACGTTCTGATGCT 20
```

```

RESULT 30
US-10-627-331-3
; Sequence 3, Application US/10627331
; Publication No. US20040106568A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Klimberg, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Methods for Treating and Preventing
; FILE REFERENCE: C01039, 70062, US
; CURRENT APPLICATION NUMBER: US/10/627,331
; PRIOR FILING DATE: 2003-07-25
; PRIOR APPLICATION NUMBER: US 09/630,319
; PRIOR FILING DATE: 2000-07-31
; PRIOR APPLICATION NUMBER: US 08/960,774
; PRIOR FILING DATE: 1997-10-30
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 124
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-10-627-331-3
```

```

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATACGTTCTGATGCT 20
Db      1  TCCATACGTTCTGATGCT 20
```

```

RESULT 31
US-10-666-733-43
; Sequence 43, Application US/10666733
; Publication No. US20040131628A1
; GENERAL INFORMATION:
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Petersen, Deanna M.
```

```

; TITLE OF INVENTION: Nucleic Acids for the Treatment of
; FILE REFERENCE: C1037, 70018US00
; CURRENT APPLICATION NUMBER: US/10/666,733
; PRIOR FILING DATE: 2003-09-19
; PRIOR APPLICATION NUMBER: not yet assigned
; PRIOR FILING DATE: 2003-09-19
; PRIOR APPLICATION NUMBER: US 09/801,839
; PRIOR FILING DATE: 2001-03-08
; PRIOR APPLICATION NUMBER: US 60/187,834
; PRIOR FILING DATE: 2000-03-08
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 43
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-10-666-733-43
```

```

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATACGTTCTGATGCT 20
Db      1  TCCATACGTTCTGATGCT 20
```

```

RESULT 32
US-10-743-625-3
; Sequence 3, Application US/10743625
; Publication No. US20040132685A1
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klimberg, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C01039, 70075, US
; CURRENT APPLICATION NUMBER: US/10/743,625
; PRIOR FILING DATE: 2003-12-22
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 09/818,918
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-743-625-3
```

```

Query Match      100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
Qy      1  TCCATACGTTCTGATGCT 20
Db      1  TCCATACGTTCTGATGCT 20
```

```

RESULT 33
US-10-743-625-45
; Sequence 45, Application US/10743625
```

```
Publication No. US20040132685A1
GENERAL INFORMATION:
APPLICANT: Klieg, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C01039, 70075, US
CURRENT APPLICATION NUMBER: US/10/743, 625
CURRENT FILING DATE: 2003-12-22
PRIOR APPLICATION NUMBER: US 08/276, 358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386, 063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738, 652
PRIOR FILING DATE: 1996-10-30
PRIOR APPLICATION NUMBER: US 09/818, 918
PRIOR FILING DATE: 2001-03-27
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 45
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-743-625-45
```

```
Query Match          100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TTCATACGTTCTGTGCT 20
        |||||
Db       1  TTCATACGTTCTGTGCT 20
```

```
RESULT 34
US-10-679-710-3
Sequence 3, Application US/10679710
Publication No. US20040147468A1
GENERAL INFORMATION:
APPLICANT: Klieg, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039, 70074US00
CURRENT APPLICATION NUMBER: US/10/679, 710
CURRENT FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: US 09/818, 918
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 08/738, 652
PRIOR FILING DATE: 1996-10-30
PRIOR APPLICATION NUMBER: US 08/386, 063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/276, 358
PRIOR FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-679-710-3
```

```
Query Match          100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TTCATACGTTCTGTGCT 20
```

```
Db       1  |||||
          1  TTCATACGTTCTGTGCT 20
```

```
RESULT 35
US-10-679-710-45
Sequence 45, Application US/10679710
Publication No. US20040147468A1
GENERAL INFORMATION:
APPLICANT: Klieg, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039, 70074US00
CURRENT APPLICATION NUMBER: US/10/679, 710
CURRENT FILING DATE: 2003-10-03
PRIOR APPLICATION NUMBER: US 09/818, 918
PRIOR FILING DATE: 2001-03-27
PRIOR APPLICATION NUMBER: US 08/738, 652
PRIOR FILING DATE: 1996-10-30
PRIOR APPLICATION NUMBER: US 08/386, 063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/276, 358
PRIOR FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 45
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-679-710-45
```

```
Query Match          100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

```
QY      1  TTCATACGTTCTGTGCT 20
        |||||
Db       1  TTCATACGTTCTGTGCT 20
```

```
RESULT 36
US-10-769-282-3
Sequence 3, Application US/10769282
Publication No. US20040167089A1
GENERAL INFORMATION:
APPLICANT: Klieg, Arthur M.
APPLICANT: Kline, Joel N.
APPLICANT: Kliman, Dennis
APPLICANT: Steinberg, Alfred D.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7048 (AWS)
CURRENT APPLICATION NUMBER: US/10/769, 282
CURRENT FILING DATE: 2004-01-30
PRIOR APPLICATION NUMBER: US 08/276, 358
PRIOR FILING DATE: 1994-07-15
PRIOR APPLICATION NUMBER: US 08/386, 063
PRIOR FILING DATE: 1995-02-07
PRIOR APPLICATION NUMBER: US 08/738, 652
PRIOR FILING DATE: 1996-10-30
NUMBER OF SEQ ID NOS: 56
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 3
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-10-769-282-3
```

Query Match 100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGTGATGCT 20
|||
Db 1 TCCATACGTTCTGTGATGCT 20

RESULT 37

US-10-769-282-45
; Sequence 45, Application US/10769282
; Publication No. US20040167089A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/10/769,282
; CURRENT FILING DATE: 2004-01-30
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-769-282-45

Query Match 100.0%; Score 20; DB 7; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGTGATGCT 20
|||
Db 1 TCCATACGTTCTGTGATGCT 20

RESULT 38

US-10-817-165-3
; Sequence 3, Application US/10817165
; Publication No. US20040198688A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/10/817,165
; CURRENT FILING DATE: 2004-04-02
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

OTHER INFORMATION: Synthetic oligonucleotide
US-10-817-165-3

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGTGATGCT 20
|||
Db 1 TCCATACGTTCTGTGATGCT 20

RESULT 39

US-10-817-165-45
; Sequence 45, Application US/10817165
; Publication No. US20040198688A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048 (AMS)
; CURRENT APPLICATION NUMBER: US/10/817,165
; CURRENT FILING DATE: 2004-04-02
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; NUMBER OF SEQ ID NOS: 56
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-817-165-45

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGTGATGCT 20
|||
Db 1 TCCATACGTTCTGTGATGCT 20

RESULT 40

US-10-877-407-33
; Sequence 33, Application US/10877407
; Publication No. US20040229835A1
; GENERAL INFORMATION:
; APPLICANT: Kriegl, Arthur M.
; APPLICANT: Kline, Joel N.
; APPLICANT: Klinman, Dennis
; APPLICANT: Steinberg, Alfred D.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7048US05
; CURRENT APPLICATION NUMBER: US/10/877,407
; CURRENT FILING DATE: 2004-06-24
; PRIOR APPLICATION NUMBER: US 09/818,918
; PRIOR FILING DATE: 2001-03-27
; PRIOR APPLICATION NUMBER: US 08/738,652
; PRIOR FILING DATE: 1996-10-30
; PRIOR APPLICATION NUMBER: US 08/386,063
; PRIOR FILING DATE: 1995-02-07
; PRIOR APPLICATION NUMBER: US 08/276,358
; PRIOR FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 51
; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 33
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-10-877-407-33

Query Match 100.0%; Score 20; DB 8; Length 20;
Best Local Similarity 100.0%; Pred. No. 2.8;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCTGATGCT 20
|||||
Db 1 TCCATACGTTCTGATGCT 20

Search completed: March 8, 2006, 20:43:19
Job time : 420.057 secs

GenCore version 5.1.7
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OM nucleic - nucleic search, using sw model

Run on: March 8, 2006, 01:35:44 ; Search time 89.813 Seconds
(without alignments)
395.844 Million cell updates/sec

Title: US-09-337-584-3

Perfect score: 20

Sequence: 1 tccataacgtcccgatgct 20

Scoring table:

IDENTITY_NUC

Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 100 summaries

Database :

Issued Patents NA:*

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- 2: /cgn2_6/ptodata/1/ina/5_COMB.seq:*
- 3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
- 4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
- 5: /cgn2_6/ptodata/1/ina/H_COMB.seq:*
- 6: /cgn2_6/ptodata/1/ina/PCUTUS_COMB.seq:*
- 7: /cgn2_6/ptodata/1/ina/PP_COMB.seq:*
- 8: /cgn2_6/ptodata/1/ina/RE_COMB.seq:*
- 9: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	20	100.0	20 3	US-08-738-652-3
2	20	100.0	20 3	US-08-738-652-45
3	20	100.0	20 3	US-09-286-098-49
4	20	100.0	20 3	US-08-960-774-3
5	20	100.0	20 3	US-09-325-193A-43
6	20	100.0	20 3	US-09-191-170-44
7	20	100.0	20 3	US-09-296-477-18
8	20	100.0	20 3	US-09-337-619-3
9	20	100.0	20 3	US-09-954-987B-77
10	20	100.0	20 3	US-09-672-126B-77
11	18.4	92.0	20 2	US-08-133-774-11
12	18.4	92.0	20 3	US-08-386-063-25
13	18.4	92.0	20 3	US-09-303-862-11
14	18.4	92.0	20 3	US-08-386-063-25
15	18.4	92.0	20 3	US-08-738-652-35
16	18.4	92.0	20 3	US-08-738-652-44
17	18.4	92.0	20 3	US-08-738-652-54
18	18.4	92.0	20 3	US-08-286-098-24
19	18.4	92.0	20 3	US-08-960-774-7
20	18.4	92.0	20 3	US-08-960-774-88
21	18.4	92.0	20 3	US-09-082-649B-68
22	18.4	92.0	20 3	US-09-082-649B-79
23	18.4	92.0	20 3	US-09-325-193A-19
24	18.4	92.0	20 3	US-09-325-193A-19

25	18.4	92.0	20 3	US-09-191-170-24	Sequence 24, Appl
26	18.4	92.0	20 3	US-09-171-425-5	Sequence 5, Appl
27	18.4	92.0	20 3	US-09-171-425-14	Sequence 14, Appl
28	18.4	92.0	20 3	US-09-690-921-5	Sequence 5, Appl
29	18.4	92.0	20 3	US-09-791-500-7	Sequence 7, Appl
30	18.4	92.0	20 3	US-09-337-619-7	Sequence 7, Appl
31	18.4	92.0	20 3	US-09-965-101-68	Sequence 68, Appl
32	18.4	92.0	20 3	US-09-965-101-79	Sequence 79, Appl
33	18.4	92.0	20 3	US-10-764-718-2	Sequence 2, Appl
34	18.4	92.0	20 3	US-09-954-987B-84	Sequence 84, Appl
35	18.4	92.0	20 3	US-09-954-987B-207	Sequence 207, Appl
36	18.4	92.0	20 3	US-09-672-126B-84	Sequence 84, Appl
37	18.4	92.0	20 3	US-08-848-229-2	Sequence 2, Appl
38	18.4	92.0	20 3	US-09-022-965-2	Sequence 2, Appl
39	17.4	87.0	19 3	US-09-770-602-1	Sequence 1, Appl
40	17.4	87.0	19 3	US-09-770-602-2	Sequence 2, Appl
41	17.4	87.0	19 3	US-09-770-602-3	Sequence 3, Appl
42	17.4	87.0	19 3	US-09-770-602-4	Sequence 4, Appl
43	17.4	87.0	19 3	US-09-770-602-5	Sequence 5, Appl
44	17.4	87.0	19 3	US-09-770-602-6	Sequence 6, Appl
45	17.4	87.0	19 3	US-09-770-602-7	Sequence 7, Appl
46	17.4	87.0	19 3	US-09-770-602-8	Sequence 8, Appl
47	17.4	87.0	20 3	US-09-296-477-19	Sequence 19, Appl
48	16.8	84.0	20 3	US-08-738-652-9	Sequence 9, Appl
49	16.8	84.0	20 3	US-08-738-652-40	Sequence 40, Appl
50	16.8	84.0	20 3	US-08-738-652-43	Sequence 43, Appl
51	16.8	84.0	20 3	US-08-738-652-46	Sequence 46, Appl
52	16.8	84.0	20 3	US-08-738-652-47	Sequence 47, Appl
53	16.8	84.0	20 3	US-08-738-652-53	Sequence 53, Appl
54	16.8	84.0	20 3	US-09-030-701-5	Sequence 5, Appl
55	16.8	84.0	20 3	US-09-286-098-45	Sequence 45, Appl
56	16.8	84.0	20 3	US-09-286-098-48	Sequence 48, Appl
57	16.8	84.0	20 3	US-09-286-098-50	Sequence 50, Appl
58	16.8	84.0	20 3	US-09-286-098-51	Sequence 51, Appl
59	16.8	84.0	20 3	US-09-286-098-56	Sequence 56, Appl
60	16.8	84.0	20 3	US-09-286-098-57	Sequence 57, Appl
61	16.8	84.0	20 3	US-08-960-774-9	Sequence 9, Appl
62	16.8	84.0	20 3	US-08-960-774-35	Sequence 35, Appl
63	16.8	84.0	20 3	US-08-960-774-38	Sequence 38, Appl
64	16.8	84.0	20 3	US-08-960-774-39	Sequence 39, Appl
65	16.8	84.0	20 3	US-08-960-774-40	Sequence 40, Appl
66	16.8	84.0	20 3	US-08-960-774-87	Sequence 87, Appl
67	16.8	84.0	20 3	US-08-960-774-89	Sequence 89, Appl
68	16.8	84.0	20 3	US-09-082-649B-71	Sequence 71, Appl
69	16.8	84.0	20 3	US-09-325-193A-38	Sequence 38, Appl
70	16.8	84.0	20 3	US-09-325-193A-42	Sequence 42, Appl
71	16.8	84.0	20 3	US-09-325-193A-44	Sequence 44, Appl
72	16.8	84.0	20 3	US-09-325-193A-45	Sequence 45, Appl
73	16.8	84.0	20 3	US-09-191-170-40	Sequence 40, Appl
74	16.8	84.0	20 3	US-09-191-170-43	Sequence 43, Appl
75	16.8	84.0	20 3	US-09-191-170-45	Sequence 45, Appl
76	16.8	84.0	20 3	US-09-191-170-46	Sequence 46, Appl
77	16.8	84.0	20 3	US-09-191-170-51	Sequence 51, Appl
78	16.8	84.0	20 3	US-09-337-619-87	Sequence 87, Appl
79	16.8	84.0	20 3	US-09-337-619-88	Sequence 88, Appl
80	16.8	84.0	20 3	US-09-337-619-95	Sequence 95, Appl
81	16.8	84.0	20 3	US-09-965-101-71	Sequence 71, Appl
82	16.8	84.0	20 3	US-09-965-101-79	Sequence 79, Appl
83	16.8	84.0	20 3	US-09-954-987B-80	Sequence 80, Appl
84	16.8	84.0	20 3	US-09-954-987B-81	Sequence 81, Appl
85	16.8	84.0	20 3	US-09-954-987B-82	Sequence 82, Appl
86	16.8	84.0	20 3	US-09-954-987B-96	Sequence 96, Appl
87	16.8	84.0	20 3	US-09-672-126B-79	Sequence 79, Appl
88	16.8	84.0	20 3	US-09-672-126B-80	Sequence 80, Appl
89	16.8	84.0	20 3	US-09-672-126B-81	Sequence 81, Appl
90	16.8	84.0	20 3	US-09-672-126B-82	Sequence 82, Appl
91	16.8	84.0	20 3	US-09-949-016-17434	Sequence 17434, A
92	16.8	84.0	20 3		
93	16.8	84.0	20 3		
94	16.8	84.0	20 3		
95	16.8	84.0	20 3		
96	16.8	84.0	20 3		
97	16.8	84.0	20 3		

98 15.8 79.0 20 3 US-09-030-701-25 Sequence 25, Appl
99 15.8 79.0 20 3 US-08-960-774-44 Sequence 44, Appl
100 15.8 79.0 20 3 US-09-082-649B-72 Sequence 72, Appl

ALIGNMENTS

RESULT 1

US-08-738-652-3
; Sequence 3, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-3

Query Match

Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATACGTTCTCTGATGCT 20
Db 1 TCCATACGTTCTCTGATGCT 20

RESULT 2

US-08-738-652-45
; Sequence 45, Application US/08738652B
; Patent No. 6207646
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; FILE REFERENCE: C1039/7004 HCL
; CURRENT APPLICATION NUMBER: US/08/738,652B
; CURRENT FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 45
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-45

Query Match

Best Local Similarity 100.0%; Score 20; DB 3; Length 20;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATACGTTCTCTGATGCT 20
Db 1 TCCATACGTTCTCTGATGCT 20

RESULT 3
US-09-286-098-49
; Sequence 49, Application US/09286098
; Patent No. 6218371
; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Weiner, George
; TITLE OF INVENTION: Methods and Products for Stimulating the
; TITLE OF INVENTION: Immune System Using Immunotherapeutic Oligonucleotides and
; FILE REFERENCE: C1039/7026/HCL
; CURRENT APPLICATION NUMBER: US/09/286,098
; CURRENT FILING DATE: 1999-04-02
; EARLIER APPLICATION NUMBER: US 60/080,729
; EARLIER FILING DATE: 1998-04-03
; NUMBER OF SEQ ID NOS: 105
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 49
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Sequence
US-09-286-098-49

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 TCCATACGTTCTCTGATGCT 20
Db 1 TCCATACGTTCTCTGATGCT 20

RESULT 4

US-08-960-774-3
; Sequence 3, Application US/08960774
; Patent No. 6239116
; GENERAL INFORMATION:
; APPLICANT: Krieg et al.,
; TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
; NUMBER OF SEQUENCES: 111
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Fish & Richardson P.C.
; STREET: 4225 Executive Square, Suite 1400
; CITY: La Jolla
; STATE: CA
; COUNTRY: USA
; ZIP: 92037
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: ASCII text
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/960,774
; FILING DATE: 30-October-1997
; CLASSIFICATION: 514
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
; FILING DATE: October 30, 1996
; CLASSIFICATION: 514
; ATTORNEY/AGENT INFORMATION:
; NAME: Haile, Lisa A.
; REGISTRATION NUMBER: 38,347
; REFERENCE/DOCKET NUMBER: 08918/012001
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 619/678-5070
; TELEFAX: 619/678-5099
; INFORMATION FOR SEQ ID NO: 3:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 20 base pairs

TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA
US-08-960-774-3

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCTATACGTTCTCTGATGCT 20
DB 1 TCCTATACGTTCTCTGATGCT 20

RESULT 5
US-09-325-193A-43
Sequence 43, Application US/09325193A
Patent No. 6406705
GENERAL INFORMATION:

APPLICANT: Davis, Heather L.
APPLICANT: Schorr, Joachim
APPLICANT: Kries, Arthur M.
TITLE OF INVENTION: Use of Nucleic Acids Containing
FILE REFERENCE: C1039/7025/HCL
CURRENT APPLICATION NUMBER: US/09/325,193A
CURRENT FILING DATE: 1999-06-03
PRIOR APPLICATION NUMBER: US 09/154,614
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/04703
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: US 60/040,376
PRIOR FILING DATE: 1997-03-10
NUMBER OF SEQ ID NOS: 98
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 43
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-43

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCTATACGTTCTCTGATGCT 20
DB 1 TCCTATACGTTCTCTGATGCT 20

RESULT 6
US-09-191-170-44
Sequence 44, Application US/09191170
Patent No. 6429199
GENERAL INFORMATION:

APPLICANT: Kries, Arthur M.
APPLICANT: Hartmann, Gunther
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7017
CURRENT APPLICATION NUMBER: US/09/191,170
CURRENT FILING DATE: 1998-11-13
EARLIER APPLICATION NUMBER: US 08/960,774
EARLIER FILING DATE: 1997-10-30
EARLIER APPLICATION NUMBER: US 08/738,652
EARLIER FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15

NUMBER OF SEQ ID NOS: 99
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 44
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-44

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCTATACGTTCTCTGATGCT 20
DB 1 TCCTATACGTTCTCTGATGCT 20

RESULT 7
US-09-296-477-18
Sequence 18, Application US/09296477A
Patent No. 6589940
GENERAL INFORMATION:

APPLICANT: RAZ, E.
APPLICANT: SCHWARTZ, D.
APPLICANT: ROMAN, M.
APPLICANT: DINA, D.
TITLE OF INVENTION: IMMUNOSTIMULATORY OLIGONUCLEOTIDES,
TITLE OF INVENTION: COMPOSITIONS THEREOF AND METHODS OF USE
FILE REFERENCE: 37782000420
CURRENT APPLICATION NUMBER: US/09/296,477A
CURRENT FILING DATE: 1999-04-22
EARLIER APPLICATION NUMBER: 09/092,329
EARLIER FILING DATE: 1998-06-05
EARLIER APPLICATION NUMBER: 60/048,793
EARLIER FILING DATE: 1997-06-06
NUMBER OF SEQ ID NOS: 21
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 18
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic construct
US-09-296-477-18

Query Match 100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 TCCTATACGTTCTCTGATGCT 20
DB 1 TCCTATACGTTCTCTGATGCT 20

RESULT 8
US-09-337-619-3
Sequence 3, Application US/09337619
Patent No. 6653292
GENERAL INFORMATION:

APPLICANT: Kries, Arthur M.
TITLE OF INVENTION: Methods of Treating Cancer Using
FILE REFERENCE: C1039/7021/HCL
CURRENT APPLICATION NUMBER: US/09/337,619
CURRENT FILING DATE: 1999-06-21
EARLIER APPLICATION NUMBER: US 08/960,774
EARLIER FILING DATE: 1997-10-30
EARLIER APPLICATION NUMBER: US 08/738,652
EARLIER FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/386,063

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; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 123
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 3
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-3
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Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  TCCATACGTTCTGTATGCT 20
DB      1  TCCATACGTTCTGTATGCT 20
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RESULT 9
US-09-954-987B-77
; Sequence 77, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AWS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; PRIOR FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 77
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-77
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Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  TCCATACGTTCTGTATGCT 20
DB      1  TCCATACGTTCTGTATGCT 20

RESULT 10
US-09-672-126B-77
; Sequence 77, Application US/09672126B
; Patent No. 6949520
; GENERAL INFORMATION:
; APPLICANT: Hartmann, Gunther
; APPLICANT: Bratzler, Robert L.
; APPLICANT: Kriegl, Arthur
; TITLE OF INVENTION: Methode Related to Immunostimulatory
; TITLE OF INVENTION: Nucleic Acid-Induced Interferon
; FILE REFERENCE: C1039/7044
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; CURRENT APPLICATION NUMBER: US/09/672,126B
; CURRENT FILING DATE: 2000-09-27
; PRIOR APPLICATION NUMBER: 60/156,147
; PRIOR FILING DATE: 1999-09-29
; NUMBER OF SEQ ID NOS: 169
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 77
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-672-126B-77
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Query Match      100.0%; Score 20; DB 3; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.41;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1  TCCATACGTTCTGTATGCT 20
DB      1  TCCATACGTTCTGTATGCT 20
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```

RESULT 11
US-09-133-774-11
; Sequence 11, Application US/09133774B
; Patent No. 5962636
; GENERAL INFORMATION:
; APPLICANT: Bachmaler, Kurt
; APPLICANT: Hessel, Andrew J.
; APPLICANT: Neu M.D., Nikolaus
; APPLICANT: Penninger, Josef M.
; TITLE OF INVENTION: No. 5962636el Peptides Capable of Modulating Inflammatory Heart
; FILE REFERENCE: A-536
; CURRENT APPLICATION NUMBER: US/09/133,774B
; CURRENT FILING DATE: 1998-08-12
; NUMBER OF SEQ ID NOS: 26
; SOFTWARE: Patencin Ver. 2.0
; SEQ ID NO 11
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Chlamydia trachomatis
; FEATURE:
; OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
; OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
; OTHER INFORMATION: Chlamydia trachomatis.
US-09-133-774-11
```

```

Query Match      92.0%; Score 18.4; DB 2; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```

QY      1  TCCATACGTTCTGTATGCT 20
DB      1  TCCATACGTTCTGTATGCT 20

RESULT 12
US-08-386-063-25
; Sequence 25, Application US/08386063
; Patent No. 6008200
; GENERAL INFORMATION:
; APPLICANT: Arthur M. Kriegl, M.D.
; TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
; NUMBER OF SEQUENCES: 27
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: LAHIVE & COCKFIELD
; STREET: 60 STATE STREET, SUITE 510
; CITY: BOSTON
; STATE: MASSACHUSETTS
; COUNTRY: USA
; ZIP: 02109-1875
```

COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION: 424
ATTORNEY/AGENT INFORMATION:
NAME: ARNOLD, BETH E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-25

Query Match 92.0%; Score 18.4; DB 3; Length 20;

Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCTAAGCTTCCTGATGCT 20
Db 1 TCCTAGACGTTCTGATGCT 20

RESULT 13
US-09-303-862-11

Sequence 11, Application US/09303862
Patent No. 6034230
GENERAL INFORMATION:
APPLICANT: Bachmaler, Kurt
APPLICANT: Hessel, Andrew J.
APPLICANT: Neu M.D., Nikolaus
APPLICANT: Penninger, Josef M.
TITLE OF INVENTION: No. 6034230e1 Peptides Capable of Modulating Inflammatory Heart
TITLE OF INVENTION: Disease
FILE REFERENCE: A-536
CURRENT APPLICATION NUMBER: US/09/303,862
CURRENT FILING DATE: 1999-05-03
EARLIER APPLICATION NUMBER: 09/133,774
EARLIER FILING DATE: 1998-08-12
NUMBER OF SEQ ID NOS: 26
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 11
LENGTH: 20
TYPE: DNA
ORGANISM: Chlamydia trachomatis
FEATURE:
OTHER INFORMATION: An oligonucleotide derived from the DNA encoding a
OTHER INFORMATION: 60 kDa cysteine rich outer membrane protein from
OTHER INFORMATION: Chlamydia trachomatis.
US-09-303-862-11

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCTAAGCTTCCTGATGCT 20
Db 1 TCCTAGACGTTCTGATGCT 20

RESULT 14
US-08-386-063-25

Sequence 25, Application US/08386063
Patent No. 6194388

GENERAL INFORMATION:
APPLICANT: Arthur M. Krieg, M.D.
TITLE OF INVENTION: IMMUNOMODULATORY OLIGONUCLEOTIDES
NUMBER OF SEQUENCES: 27
CORRESPONDENCE ADDRESS:
ADDRESSEE: LAHIVE & COCKFIELD
STREET: 60 STATE STREET, SUITE 510
CITY: BOSTON
STATE: MASSACHUSETTS
COUNTRY: USA
ZIP: 02109-1975
COMPUTER READABLE FORM:
MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/386,063
FILING DATE:
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: ARNOLD, BETH E.
REGISTRATION NUMBER: 35,430
REFERENCE/DOCKET NUMBER: UIZ-013CP
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617)227-7400
TELEFAX: (617)227-5941
INFORMATION FOR SEQ ID NO: 25:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA
US-08-386-063-25

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCTAAGCTTCCTGATGCT 20
Db 1 TCCTAGACGTTCTGATGCT 20

RESULT 15
US-08-738-652-7

Sequence 7, Application US/08738652B
Patent No. 6207646
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
FILE REFERENCE: C1039/7004 HCL
CURRENT APPLICATION NUMBER: US/08/738,652B
CURRENT FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 7
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
US-08-738-652-7

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATACGCTTCTGATGCT 20

Db 1 TCCATGACGCTTCTGATGCT 20

RESULT 16

US-08-738-652-35

; Sequence 35, Application US/08738652B

; Patent No. 6207646

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

; FILE REFERENCE: C1039/7004 HCL

; CURRENT APPLICATION NUMBER: US/08/738,652B

; CURRENT FILING DATE: 1996-10-30

; EARLIER APPLICATION NUMBER: US 08/276,358

; EARLIER FILING DATE: 1994-07-15

; EARLIER APPLICATION NUMBER: US 08/386,063

; EARLIER FILING DATE: 1995-02-07

; NUMBER OF SEQ ID NOS: 55

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 35

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

US-08-738-652-35

Query Match 92.0%; Score 18.4; DB 3; Length 20;

Best Local Similarity 95.0%; Pred. No. 2.8;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATACGCTTCTGATGCT 20

Db 1 TCCATGACGCTTCTGATGCT 20

RESULT 17

US-08-738-652-44

; Sequence 44, Application US/08738652B

; Patent No. 6207646

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

; FILE REFERENCE: C1039/7004 HCL

; CURRENT APPLICATION NUMBER: US/08/738,652B

; CURRENT FILING DATE: 1996-10-30

; EARLIER APPLICATION NUMBER: US 08/276,358

; EARLIER FILING DATE: 1994-07-15

; EARLIER APPLICATION NUMBER: US 08/386,063

; EARLIER FILING DATE: 1995-02-07

; NUMBER OF SEQ ID NOS: 55

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 44

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

US-08-738-652-44

Query Match 92.0%; Score 18.4; DB 3; Length 20;

Best Local Similarity 95.0%; Pred. No. 2.8;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATACGCTTCTGATGCT 20

Db 1 TCCATGACGCTTCTGATGCT 20

RESULT 18

US-08-738-652-54

; Sequence 54, Application US/08738652B

; Patent No. 6207646

; GENERAL INFORMATION:

; APPLICANT: Krieg, Arthur M.

; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules

; FILE REFERENCE: C1039/7004 HCL

; CURRENT APPLICATION NUMBER: US/08/738,652B

; CURRENT FILING DATE: 1996-10-30

; EARLIER APPLICATION NUMBER: US 08/276,358

; EARLIER FILING DATE: 1994-07-15

; EARLIER APPLICATION NUMBER: US 08/386,063

; EARLIER FILING DATE: 1995-02-07

; NUMBER OF SEQ ID NOS: 55

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 54

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic oligonucleotide

US-08-738-652-54

Query Match 92.0%; Score 18.4; DB 3; Length 20;

Best Local Similarity 95.0%; Pred. No. 2.8;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATACGCTTCTGATGCT 20

Db 1 TCCATGACGCTTCTGATGCT 20

RESULT 19

US-09-286-098-24

; Sequence 24, Application US/09286098

; Patent No. 6218371

; GENERAL INFORMATION:

; APPLICANT: Weiner, George

; TITLE OF INVENTION: Methods and Products for Stimulating the

; FILE REFERENCE: C1039/7026/HCL

; CURRENT APPLICATION NUMBER: US/09/286,098

; CURRENT FILING DATE: 1999-04-02

; EARLIER APPLICATION NUMBER: US 60/080,729

; EARLIER FILING DATE: 1998-04-03

; NUMBER OF SEQ ID NOS: 105

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 24

; LENGTH: 20

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: Synthetic Sequence

US-09-286-098-24

Query Match 92.0%; Score 18.4; DB 3; Length 20;

Best Local Similarity 95.0%; Pred. No. 2.8;

Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 TCCATACGCTTCTGATGCT 20

Db 1 TCCATGACGCTTCTGATGCT 20

RESULT 20

US-08-960-774-7

; Sequence 7, Application US/08960774

; Patent No. 6239116

; GENERAL INFORMATION:

; APPLICANT: Krieg et al.,

; TITLE OF INVENTION: Methods and Products for Stimulating the

; FILE REFERENCE: C1039/7026/HCL

; CURRENT APPLICATION NUMBER: US/08/960,774

; CURRENT FILING DATE: 1996-10-30

; EARLIER APPLICATION NUMBER: US 08/276,358

; EARLIER FILING DATE: 1994-07-15

; EARLIER APPLICATION NUMBER: US 08/386,063

; EARLIER FILING DATE: 1995-02-07

TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/960,774
FILING DATE: 30-October-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652
FILING DATE: October 30, 1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 08918/012001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/678-5070
TELEFAX: 619/678-5099
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-960-774-7

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCCGTATGCT 20
Db 1 TCCATGACGTTCCGTATGCT 20

RESULT 21
US-08-960-774-88
Sequence 88, Application US/08960774
Patent No. 6239116
GENERAL INFORMATION:
APPLICANT: Kriegl et al.
TITLE OF INVENTION: IMMUNOSTIMULATORY NUCLEIC ACID MOLECULES
NUMBER OF SEQUENCES: 111
CORRESPONDENCE ADDRESS:
ADDRESSEE: Fish & Richardson P.C.
STREET: 4225 Executive Square, Suite 1400
CITY: La Jolla
STATE: CA
COUNTRY: USA
ZIP: 92037
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: ASCII text
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/960,774
FILING DATE: 30-October-1997
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: U.S. Serial No. 6239116 08/738,652

FILING DATE: October 30, 1996
CLASSIFICATION: 514
ATTORNEY/AGENT INFORMATION:
NAME: Haile, Lisa A.
REGISTRATION NUMBER: 38,347
REFERENCE/DOCKET NUMBER: 08918/012001
TELECOMMUNICATION INFORMATION:
TELEPHONE: 619/678-5070
TELEFAX: 619/678-5099
INFORMATION FOR SEQ ID NO: 88:
SEQUENCE CHARACTERISTICS:
LENGTH: 20 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: CDNA
US-08-960-774-88

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCCGTATGCT 20
Db 1 TCCATACGTTCCGTATGCT 20

RESULT 22
US-09-082-649B-68
Sequence 68, Application US/09082649B
Patent No. 6339068
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Kriegl, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
FILE REFERENCE: C1039/7009
CURRENT APPLICATION NUMBER: US/09/082,649B
CURRENT FILING DATE: 1998-05-20
PRIOR APPLICATION NUMBER: US 60/047,233
PRIOR FILING DATE: 1997-05-20
PRIOR APPLICATION NUMBER: US 60/047,209
PRIOR FILING DATE: 1997-05-20
NUMBER OF SEQ ID NOS: 85
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 68
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic oligonucleotide
NAME/KEY: misc.feature
LOCATION: (0)...(0)
OTHER INFORMATION: Has a phosphodiester backbone.
US-09-082-649B-68

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCCGTATGCT 20
Db 1 TCCATGACGTTCCGTATGCT 20

RESULT 23
US-09-082-649B-79
Sequence 79, Application US/09082649B
Patent No. 6339068
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.

```

; APPLICANT: Krieg, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; TITLE OF INVENTION: Therapeutic Protocols
; FILE REFERENCE: C1039/7009
; CURRENT APPLICATION NUMBER: US/09/082,649B
; CURRENT FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 85
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-082-649B-79

```

```

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1  TCCATACGTTCTCTGATGCT 20
         ||||| ||||| ||||| |||||
DB      1  TCCATGACGTTCTCTGATGCT 20

```

```

RESULT 24
US-09-325-193A-19
; Sequence 19, Application US/09325193A
; Patent No. 6406705
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Schorr, Joachim
; APPLICANT: Krieg, Arthur M.
; TITLE OF INVENTION: Use of Nucleic Acids Containing
; FILE REFERENCE: C1039/7025/HCL
; CURRENT APPLICATION NUMBER: US/09/325,193A
; CURRENT FILING DATE: 1999-06-03
; PRIOR APPLICATION NUMBER: US 09/154,614
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/04703
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: US 60/040,376
; PRIOR FILING DATE: 1997-03-10
; NUMBER OF SEQ ID NOS: 98
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 19
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic Oligonucleotide
US-09-325-193A-19

```

```

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1  TCCATACGTTCTCTGATGCT 20
         ||||| ||||| ||||| |||||
DB      1  TCCATGACGTTCTCTGATGCT 20

```

```

RESULT 25
US-09-191-170-24
; Sequence 24, Application US/09191170
; Patent No. 6429199

```

```

; GENERAL INFORMATION:
; APPLICANT: Krieg, Arthur M.
; APPLICANT: Hartmann, Gunther
; TITLE OF INVENTION: Immunostimulatory Nucleic Acid Molecules
; TITLE OF INVENTION: for Activating Dendritic Cells
; FILE REFERENCE: C1039/7017
; CURRENT APPLICATION NUMBER: US/09/191,170
; CURRENT FILING DATE: 1998-11-13
; EARLIER APPLICATION NUMBER: US 08/960,774
; EARLIER FILING DATE: 1997-10-30
; EARLIER APPLICATION NUMBER: US 08/738,652
; EARLIER FILING DATE: 1996-10-30
; EARLIER APPLICATION NUMBER: US 08/386,063
; EARLIER FILING DATE: 1995-02-07
; EARLIER APPLICATION NUMBER: US 08/276,358
; EARLIER FILING DATE: 1994-07-15
; NUMBER OF SEQ ID NOS: 99
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO: 24
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-191-170-24

```

```

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1  TCCATACGTTCTCTGATGCT 20
         ||||| ||||| ||||| |||||
DB      1  TCCATGACGTTCTCTGATGCT 20

```

```

RESULT 26
US-09-171-425-5
; Sequence 5, Application US/09171425A
; Patent No. 6465438
; GENERAL INFORMATION:
; APPLICANT: Schorr, Joachim
; APPLICANT: Baker, Henry J.
; APPLICANT: Smith, Bruce F.
; TITLE OF INVENTION: NUCLEIC ACID VACCINATION FOR PARVOVIRAL INFECTIONS
; FILE REFERENCE: 08909/003001
; CURRENT APPLICATION NUMBER: US/09/171,425A
; CURRENT FILING DATE: 1998-10-19
; EARLIER APPLICATION NUMBER: PCT/EP97/01943
; EARLIER FILING DATE: 1996-04-19
; NUMBER OF SEQ ID NOS: 14
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO: 5
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetically generated oligonucleotides
US-09-171-425-5

```

```

Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY      1  TCCATACGTTCTCTGATGCT 20
         ||||| ||||| ||||| |||||
DB      1  TCCATGACGTTCTCTGATGCT 20

```

```

RESULT 27
US-09-171-425-14
; Sequence 14, Application US/09171425A
; Patent No. 6465438
; GENERAL INFORMATION:

```


APPLICANT: Schorr, Joachim
APPLICANT: Baker, Henry J.
APPLICANT: Smith, Bruce F.
TITLE OF INVENTION: NUCLEIC ACID VACCINATION FOR PARVOVIRAL INFECTIONS
FILE REFERENCE: 08909/003001
CURRENT APPLICATION NUMBER: US/09/171,425A
CURRENT FILING DATE: 1998-10-19
EARLIER APPLICATION NUMBER: PCT/EP97/01943
EARLIER FILING DATE: 1996-04-19
NUMBER OF SEQ ID NOS: 14
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 14
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetically generated oligonucleotides
US-09-171-425-14

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 3; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCTAACGCTTCCTGATGCT 20
Db 1 TCCTAGACGCTTCCTGATGCT 20

RESULT 28
US-09-690-921-5
Sequence 5, Application US/09690921
Patent No. 6544518
GENERAL INFORMATION:
APPLICANT: Friede, Martin
APPLICANT: Gerard, Catherine
APPLICANT: Hermand, Philippe
TITLE OF INVENTION: Vaccines
FILE REFERENCE: B45181-1
CURRENT APPLICATION NUMBER: US/09/690,921
CURRENT FILING DATE: 2000-10-18
PRIOR APPLICATION NUMBER: PCT/EP00/02920
PRIOR FILING DATE: 2000-04-04
PRIOR APPLICATION NUMBER: 09/301,829
PRIOR FILING DATE: 1999-04-29
PRIOR APPLICATION NUMBER: 9908885.8
PRIOR FILING DATE: 1999-04-19
NUMBER OF SEQ ID NOS: 5
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 5
LENGTH: 20
TYPE: DNA
ORGANISM: Human
US-09-690-921-5

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 3; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCTAACGCTTCCTGATGCT 20
Db 1 TCCTAGACGCTTCCTGATGCT 20

RESULT 29
US-09-791-500-7
Sequence 7, Application US/09791500
Patent No. 6613751
GENERAL INFORMATION:
APPLICANT: Raz, Eyal
APPLICANT: Rachmilewitz, Daniel
TITLE OF INVENTION: Method for Treating Inflammatory Bowel
Disease and Other Forms of Gastrointestinal Inflammation.
FILE REFERENCE: 6510-202051

CURRENT APPLICATION NUMBER: US/09/791,500
CURRENT FILING DATE: 2001-02-22
NUMBER OF SEQ ID NOS: 39
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 7
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: synthetic polynucleotide sequence
US-09-791-500-7

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 3; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCTAACGCTTCCTGATGCT 20
Db 1 TCCTAGACGCTTCCTGATGCT 20

RESULT 30
US-09-337-619-7
Sequence 7, Application US/09337619
Patent No. 6653292
GENERAL INFORMATION:
APPLICANT: Krieg, Arthur M.
TITLE OF INVENTION: Methods of Treating Cancer Using
Immunostimulatory Oligonucleotides
FILE REFERENCE: C1039/7021/HCL
CURRENT APPLICATION NUMBER: US/09/337,619
CURRENT FILING DATE: 1999-06-21
EARLIER APPLICATION NUMBER: US 08/960,774
EARLIER FILING DATE: 1997-10-30
EARLIER APPLICATION NUMBER: US 08/738,652
EARLIER FILING DATE: 1996-10-30
EARLIER APPLICATION NUMBER: US 08/386,063
EARLIER FILING DATE: 1995-02-07
EARLIER APPLICATION NUMBER: US 08/276,358
EARLIER FILING DATE: 1994-07-15
NUMBER OF SEQ ID NOS: 123
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 7
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-337-619-7

Query Match
Best Local Similarity 92.0%; Score 18.4; DB 3; Length 20;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCTAACGCTTCCTGATGCT 20
Db 1 TCCTAGACGCTTCCTGATGCT 20

RESULT 31
US-09-965-101-68
Sequence 68, Application US/09965101
Patent No. 6821957
GENERAL INFORMATION:
APPLICANT: Davis, Heather L.
APPLICANT: Krieg, Arthur M.
APPLICANT: Schorr, Joachim
APPLICANT: Wu, Tong
TITLE OF INVENTION: Vectors and Methods for Immunization or
Therapeutic Protocols
FILE REFERENCE: C1039/7057 (HCL/MAT)
CURRENT APPLICATION NUMBER: US/09/965,101
CURRENT FILING DATE: 2001-09-26

```

; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 68
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
; NAME/KEY: misc_feature
; LOCATION: (0)...(0)
; OTHER INFORMATION: Has a phosphodiester backbone.
US-09-965-101-68
```

```
Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGTTCTGTGCT 20
         ||||| ||||| ||||| |||||
Db       1  TCCATGACGTTCTGTGCT 20
```

```

RESULT 32
US-09-965-101-79
; Sequence 79, Application US/09965101
; Patent No. 6821957
; GENERAL INFORMATION:
; APPLICANT: Davis, Heather L.
; APPLICANT: Kries, Arthur M.
; APPLICANT: Schorr, Joachim
; APPLICANT: Wu, Tong
; TITLE OF INVENTION: Vectors and Methods for Immunization or
; FILE REFERENCE: C1039/7057 (HCL/MAT)
; CURRENT APPLICATION NUMBER: US/09/965,101
; CURRENT FILING DATE: 2001-09-26
; PRIOR APPLICATION NUMBER: US 09/082,649
; PRIOR FILING DATE: 1998-05-20
; PRIOR APPLICATION NUMBER: US 60/047,233
; PRIOR FILING DATE: 1997-05-20
; PRIOR APPLICATION NUMBER: US 60/047,209
; PRIOR FILING DATE: 1997-05-20
; NUMBER OF SEQ ID NOS: 84
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 79
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetic oligonucleotide
US-09-965-101-79
```

```
Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGTTCTGTGCT 20
         ||||| ||||| ||||| |||||
Db       1  TCCATGACGTTCTGTGCT 20
```

```

RESULT 33
US-10-764-718-2
; Sequence 2, Application US/10764718
; Patent No. 6875580
; GENERAL INFORMATION:
; APPLICANT: Paturel, Carine
```

```

; APPLICANT: Trinchieri, Giorgio
; APPLICANT: Pin, Jean-Jacques
; TITLE OF INVENTION: Antibodies Specific for Plasmacytoid Dendritic Cells
; FILE REFERENCE: SF06011US01
; CURRENT APPLICATION NUMBER: US/10/764,718
; CURRENT FILING DATE: 2004-01-26
; PRIOR APPLICATION NUMBER: US 60/443,244
; PRIOR FILING DATE: 2003-01-28
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: oligodeoxynucleotide (ODN)
US-10-764-718-2
```

```
Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGTTCTGTGCT 20
         ||||| ||||| ||||| |||||
Db       1  TCCATGACGTTCTGTGCT 20
```

```

RESULT 34
US-09-954-987B-84
; Sequence 84, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
; APPLICANT: Grayson B. Lipford
; APPLICANT: Hermann Wagner
; TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
; FILE REFERENCE: C1041/7016 (AMS)
; CURRENT APPLICATION NUMBER: US/09/954,987B
; CURRENT FILING DATE: 2001-09-17
; PRIOR APPLICATION NUMBER: US 60/233,035
; PRIOR FILING DATE: 2000-09-15
; PRIOR APPLICATION NUMBER: US 60/263,657
; PRIOR FILING DATE: 2001-01-23
; PRIOR APPLICATION NUMBER: US 60/291,726
; PRIOR FILING DATE: 2001-05-17
; PRIOR APPLICATION NUMBER: US 60/300,210
; PRIOR FILING DATE: 2001-06-22
; NUMBER OF SEQ ID NOS: 230
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 84
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide
US-09-954-987B-84
```

```
Query Match          92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY      1  TCCATACGTTCTGTGCT 20
         ||||| ||||| ||||| |||||
Db       1  TCCATGACGTTCTGTGCT 20
```

```

RESULT 35
US-09-954-987B-207
; Sequence 207, Application US/09954987B
; Patent No. 6943240
; GENERAL INFORMATION:
; APPLICANT: Stefan Bauer
```

APPLICANT: Grayson B. Lipford
APPLICANT: Hermann Wagner
TITLE OF INVENTION: PROCESS FOR HIGH THROUGHPUT SCREENING OF
FILE REFERENCE: C1041/7016 (AMS)
CURRENT APPLICATION NUMBER: US/09/954,987B
CURRENT FILING DATE: 2001-09-17
PRIOR APPLICATION NUMBER: US 60/233,035
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 60/263,657
PRIOR FILING DATE: 2001-01-23
PRIOR APPLICATION NUMBER: US 60/291,726
PRIOR FILING DATE: 2001-05-17
PRIOR APPLICATION NUMBER: US 60/300,210
NUMBER OF SEQ ID NOS: 230
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 207
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide
NAME/KEY: modified base
LOCATION: (8)---(8)
OTHER INFORMATION: m5c
US-09-954-987B-207

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCCGTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 36
US-09-672-126B-84
Sequence 84, Application US/09672126B
Patent No. 6949520
GENERAL INFORMATION:
APPLICANT: Hartmann, Gunther
APPLICANT: Bratzler, Robert L.
TITLE OF INVENTION: Methods Related to Immunostimulatory
FILE REFERENCE: C1039/7044
CURRENT APPLICATION NUMBER: US/09/672,126B
CURRENT FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: 60/156,147
PRIOR FILING DATE: 1999-09-29
NUMBER OF SEQ ID NOS: 169
SOFTWARE: FastSeq for Windows Version 3.0
SEQ ID NO 84
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic Oligonucleotide
US-09-672-126B-84

Query Match 92.0%; Score 18.4; DB 3; Length 20;
Best Local Similarity 95.0%; Pred. No. 2.8;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCCGTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 37

US-08-848-229-2
Sequence 2, Application US/08848229
Patent No. 6426314
GENERAL INFORMATION:
APPLICANT: OUYAN, Zhao
TITLE OF INVENTION: OLIGONUCLEOTIDE MEDIATED SPECIFIC CYTOKINE INDUCTION
FILE REFERENCE: 475-08-635
CURRENT APPLICATION NUMBER: US/08/848,229
CURRENT FILING DATE: 1997-04-30
NUMBER OF SEQ ID NOS: 3
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 29
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Cpg in HYB-0272
US-08-848-229-2

Query Match 92.0%; Score 18.4; DB 3; Length 29;
Best Local Similarity 95.0%; Pred. No. 3.1;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCCGTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 38
US-09-022-965-2
Sequence 2, Application US/09022965
Patent No. 6624293
GENERAL INFORMATION:
APPLICANT: OUYAN, Zhao
TITLE OF INVENTION: OLIGONUCLEOTIDE MEDIATED SPECIFIC CYTOKINE INDUCTION
FILE REFERENCE: 475-08-635
CURRENT APPLICATION NUMBER: US/09/022,965
CURRENT FILING DATE: 1998-02-12
NUMBER OF SEQ ID NOS: 3
SOFTWARE: PatentIn Ver. 2.0
SEQ ID NO 2
LENGTH: 29
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: Cpg in HYB-0272
US-09-022-965-2

Query Match 92.0%; Score 18.4; DB 3; Length 29;
Best Local Similarity 95.0%; Pred. No. 3.1;
Matches 19; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1 TCCATACGTTCCGTGATGCT 20
Db 1 TCCATGACGTTCTGATGCT 20

RESULT 39
US-09-770-602-1
Sequence 1, Application US/09770602
Patent No. 6815429
GENERAL INFORMATION:
APPLICANT: AGRAWAL, SUDHIR
TITLE OF INVENTION: MODULATION OF OLIGONUCLEOTIDE CPG-MEDIATED IMMUNE
TITLE OF INVENTION: STIMULATION BY POSITIONAL MODIFICATION OF NUCLEOSIDES
FILE REFERENCE: HYB-003051
CURRENT APPLICATION NUMBER: US/09/770,602
CURRENT FILING DATE: 2001-01-26
PRIOR APPLICATION NUMBER: 60/178,562
PRIOR FILING DATE: 2000-01-26
NUMBER OF SEQ ID NOS: 8

```

; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 1
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
US-09-770-602-1

Query Match          87.0%; Score 17.4; DB 3; Length 19;
Best Local Similarity 94.7%; Pred. No. 9.5;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TCCATACGTTCTCTGATGC 19
        ||||| ||||| |||||
Db      1 TCCATGACGTTCTCTGATGC 19

RESULT 40
US-09-770-602-2
; Sequence 2, Application US/09770602
; Patent No. 6815429
; GENERAL INFORMATION:
; APPLICANT: AGRAMAL, SUDHIR
; TITLE OF INVENTION: MODULATION OF OLIGONUCLEOTIDE CPG-MEDIATED IMMUNE
; TITLE OF INVENTION: STIMULATION BY POSITIONAL MODIFICATION OF NUCLEOSIDES
; FILE REFERENCE: HYB-003US1
; CURRENT APPLICATION NUMBER: US/09/770,602
; PRIOR FILING DATE: 2001-01-26
; PRIOR APPLICATION NUMBER: 60/178,562
; PRIOR FILING DATE: 2000-01-26
; NUMBER OF SEQ ID NOS: 8
; SOFTWARE: Patentin Ver. 3.2
; SEQ ID NO 2
; LENGTH: 19
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic
; OTHER INFORMATION: oligonucleotide
; FEATURE:
; NAME/KEY: modified_base
; LOCATION: (7)
; OTHER INFORMATION: 3'-O-methyl modification
US-09-770-602-2

Query Match          87.0%; Score 17.4; DB 3; Length 19;
Best Local Similarity 94.7%; Pred. No. 9.5;
Matches 18; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy      1 TCCATACGTTCTCTGATGC 19
        ||||| ||||| |||||
Db      1 TCCATGACGTTCTCTGATGC 19

Search completed: March 8, 2006, 01:51:50
Job time : 90.813 secs
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